

File 347:JAPIO Oct 1976-2002/Jun(Updated 021004)  
(c) 2002 JPO & JAPIO  
File 348:EUROPEAN PATENTS 1978-2002/Sep W05  
(c) 2002 European Patent Office  
File 349:PCT FULLTEXT 1983-2002/UB=20021003,UT=20020926  
(c) 2002 WIPO/Univentio  
File 350:Derwent WPIX 1963-2002/UD,UM &UP=200265  
(c) 2002 Thomson Derwent

Set	Items	Description
S1	63	AU='HOLMES A' OR AU='HOLMES A D' OR AU='HOLMES ANDREW'
S2	1	AU='HORIGAN L'
S3	7	AU='LANGSTON J' OR AU='LANGSTON J A'
S4	186	AU='MCMURTRY D' OR AU='MCMURTRY DAVID HARWOOD':AU='MCMURTRY DAVID ROBERTS 20 TABERNACLE ROAD'
S5	20	AU='TREMBLAY S' OR AU='TREMBLAY SYLVAIN':AU='TREMBLAY SYLVAIN PAUL'
S6	1	AU='TROUNDAY R P'
S7	23	(S1 OR S2 OR S3 OR S4 OR S5 OR S6) AND EXCHANGE

7/5/1 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
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06872133 \*\*Image available\*\*  
STYLUS OF CONTACT PROBE

PUB. NO.: 2001-099637 [JP 2001099637 A]  
PUBLISHED: April 13, 2001 (20010413)  
INVENTOR(s): MCMURTRY DAVID ROBERTS  
MCFARLAND GEOFF  
APPLICANT(s): RENISHAW PLC  
APPL. NO.: 2000-256301 [JP 2000256301]  
FILED: August 25, 2000 (20000825)  
PRIORITY: 99 9920029 [GB 9920029], GB (United Kingdom), August 25, 1999  
(19990825)  
INTL CLASS: G01B-021/00

#### ABSTRACT

PROBLEM TO BE SOLVED: To facilitate the direction of exchange period of a stylus.

SOLUTION: A stylus tip end 16 having one or more coated layers 28 and 30 is opened to a base body 20. The material of the layer is selected to distinguish the colors between a layer 28 and the base body 20 and between the layer 28 and the layer 30. The distinction of color is shown to the user when the tip end of the stylus is abraded. Because lower base body or color distinguishable of layer appears. This coated layer 30 can be resistive against abrasion.

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7/5/2 (Item 1 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01389579

Indexing mechanism  
Indiziervorrichtung  
Mecanisme d'indexation

PATENT ASSIGNEE:

Renishaw plc, (567630), New Mills, Wotton-Under-Edge Gloucestershire GL12 8JR, (GB), (Applicant designated States: all)

INVENTOR:

Woolfrey, Andrew Mark, 9 Bradley Street, Wotton-under-Edge, Gloucestershire GL12 7AP, (GB)

Smith, Brian John Edward, 50 Barkers Mead, Brimsham Park, Yate, South Gloucestershire BS37 7LF, (GB)

McMurtry, David Roberts, Park Farm, Stancombe, Dursley, Gloucestershire GL11 6AT, (GB)

Hill, Michael Jackson, The Flat, 11A High Street, Wotton-under-Edge, Gloucestershire GL12 7DE, (GB)

LEGAL REPRESENTATIVE:

Jackson, John Timothy et al (45974), Renishaw plc Patent Department New Mills, Wotton-under-Edge Gloucestershire GL12 8JR, (GB)

PATENT (CC, No, Kind, Date): EP 1177855 A2 020206 (Basic)

APPLICATION (CC, No, Date): EP 2001306591 010801;

PRIORITY (CC, No, Date): GB 19199 000805

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: B23Q-016/06; G02B-007/00

ABSTRACT EP 1177855 A2

An indexing mechanism comprises a disc (2) rotatable about a central

axis, suitable for holding objects such as lenses. Detents (8) are provided on the disc which interact with a pawl (14) on a fixed surface adjacent the disc (2). When the disc rotates in a first direction the pawl (14) is deflected by each passing detent (8), returning to its rest position when the detent (8) is passed. When the disc is rotated in an opposite direction, the pawl (14) abuts a detent (8) to define an index position. The disc is driven or biased in this direction to retain this position. A stop (10) may be provided on the disc (2) adjacent each detent (8) which defines the position of the pawl (14) relative to the disc (2). The disc (2) may be driven by a motor (12) and drive means. An alternative system may be used in which lever (40) interacts with a plurality of protrusions (46) on the disc to rotate the disc in a first direction or bias the disc in a second direction so that the pawl (14) abuts a detent (8).

ABSTRACT WORD COUNT: 189

NOTE:

Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 020206 A2 Published application without search report

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200206	539
SPEC A	(English)	200206	2520
Total word count - document A			3059
Total word count - document B			0
Total word count - documents A + B			3059

7/5/3 (Item 2 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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00893529

**Rotary bearing and drive mechanism**

**Drehlager und Treibmechanismus**

**Coussinet rotatif et mecanisme de commande**

PATENT ASSIGNEE:

Renishaw plc, (567630), New Mills, Wotton-Under-Edge Gloucestershire GL12

8JR, (GB), (Proprietor designated states: all)

INVENTOR:

Henning, Brian Cecil Robert, 5 Pittville Close, Thornbury, South

Gloucestershire, BS12 1SB, (GB)

Wells, Peter John, Robins Hill, Townsend, Nympsfield, Stonehouse,

Gloucestershire, GL10 3UG, (GB)

**McMurtry, David Roberts**, 20 Tabernacle Road, Wotton-under-Edge,

Gloucestershire, GL12 7EF, (GB)

LEGAL REPRESENTATIVE:

Jones, Bruce Graeme Roland et al (69531), Renishaw plc, Patent

Department, New Mills, Wotton-under Edge, Gloucestershire GL12 8JR,

(GB)

PATENT (CC, No, Kind, Date): EP 816014 A2 980107 (Basic)

EP 816014 A3 980204

EP 816014 B1 020109

APPLICATION (CC, No, Date): EP 97304197 970616;

PRIORITY (CC, No, Date): GB 9612587 960615

DESIGNATED STATES: DE; GB; IT

INTERNATIONAL PATENT CLASS: B23Q-001/26; B23Q-001/52; F16D-003/78

CITED PATENTS (EP B): EP 288999 A; EP 392699 A; DE 3904141 A; US 4737136 A

ABSTRACT EP 816014 A3

A rotary bearing has a pair (32,40) of bearing members, one of which has convex (34) and planar (36) surface portions, and the other of which has concave (42) and planar (44) surface portions. The convex and concave surface portions and the planar surface portions of the two bearing

members bear against each other via an interstitial bearing medium of air, with the axial forces between the convex and concave surfaces counteracting the axial forces between the planar surface portions. When incorporated into a drive mechanism, one of the bearing members is connected to a drive shaft via a first torsionally stiff flexible diaphragm (130), and the other bearing member is mounted to a motor (50) (which rotates the drive shaft) via a second torsionally stiff flexible diaphragm. During operation, flexing of the diaphragms (110,130) accommodates eccentricity in the mounting of the motor (50) without transmitting unwanted loads to the bearing.

ABSTRACT WORD COUNT: 152

NOTE:

Figure number on first page: 6

LEGAL STATUS (Type, Pub Date, Kind, Text):

Grant: 020109 B1 Granted patent  
Examination: 20000216 A2 Date of dispatch of the first examination report: 19991229  
Application: 980107 A2 Published application (A1with Search Report ;A2without Search Report)  
Search Report: 980204 A3 Separate publication of the European or International search report  
Change: 980204 A2 Obligatory supplementary classification (change)  
Examination: 980930 A2 Date of filing of request for examination: 980730  
Change: 981014 A2 Designated Contracting States (change)

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	199802	325
CLAIMS B	(English)	200202	312
CLAIMS B	(German)	200202	282
CLAIMS B	(French)	200202	336
SPEC A	(English)	199802	1742
SPEC B	(English)	200202	1763
Total word count - document A			2067
Total word count - document B			2693
Total word count - documents A + B			4760

7/5/4 (Item 3 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

(c) 2002 European Patent Office. All rts. reserv.

00807874

Touch probe

Messtaster

Tete de mesure

PATENT ASSIGNEE:

Renishaw Metrology Limited, (1336770), New Mills, Wotton-Under-Edge, Gloucestershire GL12 8JR, (GB), (Applicant designated States: all)

INVENTOR:

Hajdukiewicz, Peter, 49 Bradley Street, Wotton-Under-Edge, Gloucestershire, GL12 7AR, (GB)

Hellen, Graham Andrew, 56 Mountbatten Close, North Yate, Bristol, BS17 5TE, (GB)

Hellier, Peter Kenneth, 6 Highlands Drive, North Nibley, Gloucestershire, GL11 6DX, (GB)

Dabbs, John Christopher, Itton View, 41 Piercefield, Chepstow, Gwent, NP6 5JB, (GB)

McMurtry, David Roberts , 20 Tabernacle Road, Wotton-Under-Edge, Gloucestershire, GL12 7EF, (GB)

LEGAL REPRESENTATIVE:

Jones, Bruce Graeme Roland et al (69531), Renishaw plc, Patent Department, New Mills, Wotton-under Edge, Gloucestershire GL12 8JR,

(GB)

PATENT (CC, No, Kind, Date): EP 750171 A2 961227 (Basic)

EP 750171 A3 000202

APPLICATION (CC, No, Date): EP 96112514 921109;

PRIORITY (CC, No, Date): GB 9123853 911109; GB 9124777 911121; GB 9215512 920722

DESIGNATED STATES: DE; GB; IT

RELATED PARENT NUMBER(S) - PN (AN):

EP 566719 (EP 92923048)

INTERNATIONAL PATENT CLASS: G01B-005/012; G01B-021/04

ABSTRACT EP 750171 A2

A magazine has a plurality of storage ports 100 each of which retains a stylus module 14 for use in measuring workpiece dimensions on a coordinate measuring machine. Each storage port 100 is configured as a pair of jaws provided by docking inserts 114. A permanent magnet 118 is mounted on each docking insert 114. The lower casing of the stylus module 14 is urged against the inwardly facing edges 116 of the docking inserts 114 by the magnetic attraction force due the magnets 118. The stylus module 14 is engaged with a retaining module (on the quill of the machine) by moving the retaining module in a downward sense to engage the stylus module 14; further downward movement disengages the stylus module 14 from the storage port 100, thus enabling engagement of such a stylus module and removal of the module from the storage port in a single continuous movement. (see image in original document)

ABSTRACT WORD COUNT: 179

NOTE:

Figure number on first page: 2

LEGAL STATUS (Type, Pub Date, Kind, Text):

Examination: 010704 A2 Date of dispatch of the first examination report: 20010521

Change: 20000202 A2 International Patent Classification changed: 19991216

Application: 961227 A2 Published application (A1with Search Report ;A2without Search Report)

Search Report: 20000202 A3 Separate publication of the search report

Examination: 20000419 A2 Date of request for examination: 20000221

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPAB96	444
SPEC A	(English)	EPAB96	5709
Total word count - document A			6153
Total word count - document B			0
Total word count - documents A + B			6153

7/5/5 (Item 4 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00779684

TOUCH PROBE

FUHLERPROBE

SONDE DE CONTACT A EFFLEUREMENT

PATENT ASSIGNEE:

Renishaw plc, (567630), New Mills, Wotton-Under-Edge Gloucestershire GL12 8JR, (GB), (Proprietor designated states: all)

INVENTOR:

McMURTRY, David, Roberts , 20 Tabernacle Road Wotton-Under-Edge, Gloucestershire GL12 7EF, (GB)

LEGAL REPRESENTATIVE:

Jones, Bruce Graeme Roland et al (69531), Renishaw plc, Patent Department, New Mills, Wotton-under Edge, Gloucestershire GL12 8JR, (GB)

PATENT (CC, No, Kind, Date): EP 740768 A1 961106 (Basic)  
EP 740768 B1 000315  
WO 9616312 960530  
APPLICATION (CC, No, Date): EP 95936684 951115; WO 95GB2669 951115  
PRIORITY (CC, No, Date): GB 9423176 941117  
DESIGNATED STATES: DE; GB; IT  
INTERNATIONAL PATENT CLASS: G01B-005/012; G01B-007/012  
CITED PATENTS (EP B): EP 501710 A; WO 92/21932 A; DE 3427413 C  
NOTE:

No A-document published by EPO  
LEGAL STATUS (Type, Pub Date, Kind, Text):  
Oppn None: 010228 B1 No opposition filed: 20001216  
Grant: 20000315 B1 Granted patent  
Application: 960828 A International application (Art. 158(1))  
Application: 961106 A1 Published application (A1with Search Report  
;A2without Search Report)  
Examination: 961106 A1 Date of filing of request for examination:  
960705  
Examination: 980325 A1 Date of despatch of first examination report:  
980205  
Change: 990728 A1 Title of invention (German) (change)  
Change: 990728 A1 Title of invention (English) (change)  
Change: 990728 A1 Title of invention (French) (change)  
LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:  
Available Text Language Update Word Count  
CLAIMS B (English) 200011 738  
CLAIMS B (German) 200011 696  
CLAIMS B (French) 200011 795  
SPEC B (English) 200011 1469  
Total word count - document A 0  
Total word count - document B 3698  
Total word count - documents A + B 3698

7/5/6 (Item 5 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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00663955

**Interchangeable probe head**  
**Auswechselbarer Probekopf**  
**Sonde a tete interchangeable**

PATENT ASSIGNEE:

Renishaw Metrology Limited, (1336770), New Mills, Wotton-Under-Edge,  
Gloucestershire GL12 8JR, (GB), (applicant designated states:  
CH;DE;FR;GB;IT;LI)

INVENTOR:

McMurtry, David Roberts , 20 Tabernacle Road, Wotton-Under-Edge,  
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LEGAL REPRESENTATIVE:

Jones, Bruce Graeme Roland et al (69531), Renishaw plc, Patent  
Department, New Mills, Wotton-under Edge, Gloucestershire GL12 8JR,  
(GB)

PATENT (CC, No, Kind, Date): EP 637729 A2 950208 (Basic)  
EP 637729 A3 950517  
EP 637729 B1 970827

APPLICATION (CC, No, Date): EP 94117151 920708;

PRIORITY (CC, No, Date): GB 9114946 910711

DESIGNATED STATES: CH; DE; FR; GB; IT; LI

RELATED PARENT NUMBER(S) - PN (AN):

EP 523906 (EP 923062707)

INTERNATIONAL PATENT CLASS: G01B-005/00; B23Q-016/08;

ABSTRACT EP 637729 A2

A probe head (10) includes a support (12) by which the probe head is

retained on the quill of a coordinate positioning machine, and a rotor (14) which is magnetically retained on the support (12). The rotor (14) is rotatable between a plurality of indexed angular positions provided by a ring of balls (26) and three adjacently positioned pairs of rollers (24). A drive dog shaft (20) is linearly movable to disengage the balls (26) from the rollers (24), and rotatable to rotate the rotor (14) to a new indexed position, whereupon the drive dog shaft (20) is retracted to re-engage a set of three balls (26) with the rollers (24). **Exchange** of a measuring probe (16) is performed by removing the entire rotor (14), and exchanging it for a further rotor carrying a different measuring probe. The engagement elements provided by rollers (24) and balls (26) thus serve the functions of (a) indexing and (b) repeatably retaining a rotor (14) on the support (12). This reduces the number of kinematic locations required between the movable arm of the machine and the probe (16) during the course of normal operation of a probe head to which a number of probes (16) are releasably couplable. (see image in original document)

ABSTRACT WORD COUNT: 211

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 950208 A2 Published application (A1with Search Report ;A2without Search Report)  
 Examination: 950208 A2 Date of filing of request for examination: 941031  
 Change: 950419 A2 Obligatory supplementary classification (change)  
 Search Report: 950517 A3 Separate publication of the European or International search report  
 Examination: 960911 A2 Date of despatch of first examination report: 960726  
 Grant: 970827 B1 Granted patent  
 Oppn None: 980819 B1 No opposition filed  
 Lapse: 980826 B1 Date of lapse of the European patent in a Contracting State: FR 980123  
 Lapse: 981104 B1 Date of lapse of the European patent in a Contracting State: CH 970827, LI 970827, FR 980123  
 Lapse: 981104 B1 Date of lapse of the European patent in a Contracting State: CH 970827, LI 970827, FR 980123

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9708W4	330
CLAIMS B	(German)	9708W4	341
CLAIMS B	(French)	9708W4	379
SPEC B	(English)	9708W4	1668
Total word count - document A			0
Total word count - document B			2718
Total word count - documents A + B			2718

7/5/7 (Item 6 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00603528

Touch probe and signal processing circuit therefor

Tastsonde und Signalverarbeitungsschaltung dafür

Sonde tactile et circuit de traitement de signal pour la meme

PATENT ASSIGNEE:

Renishaw plc, (567630), New Mills, Wotton-Under-Edge Gloucestershire GL12 8JR, (GB), (applicant designated states: DE;GB;IT)

INVENTOR:

Lloyd, Peter George, 133 Roundways, Coalpit Heath, Bristol, Avon BS17 2LU, (GB)

Hellier, Peter Kenneth, 6 Highlands Drive, North Nibley, Gloucestershire  
GL11 6DX, (GB)

McMurtry, David Roberts , 20 Tabernacle Road, Wotton-Under-Edge,  
Gloucestershire GL12 7EF, (GB)

LEGAL REPRESENTATIVE:

Jones, Bruce Graeme Roland et al (69531), Renishaw plc, Patent  
Department, New Mills, Wotton-under Edge, Gloucestershire GL12 8JR,  
(GB)

PATENT (CC, No, Kind, Date): EP 605140 A1 940706 (Basic)  
EP 605140 B1 990127

APPLICATION (CC, No, Date): EP 93310098 931214;

PRIORITY (CC, No, Date): GB 9226934 921224; GB 9301822 930129

DESIGNATED STATES: DE; GB; IT

INTERNATIONAL PATENT CLASS: G01B-007/00;

ABSTRACT EP 605140 A1

A touch trigger probe incorporates piezoelectric sensors (50), whose outputs are processed by an interface circuit. The interface circuit discriminates between signals generated from the piezoelectric sensors (50) as a result of machine vibration and those generated as a result of a genuine measurement event, by the use of a timing circuit (90). The timing circuit (90) compares the time intervals ( $t_{(sub\ 1)} - t_{(sub\ 2)}$ ) ; ( $t_{(sub\ 2)} - t_{(sub\ 3)}$ ) between attainment of first ( $l_{(sub\ 1)}$ ) and second ( $l_{(sub\ 2)}$ ), and second ( $l_{(sub\ 2)}$ ) and third ( $l_{(sub\ 3)}$ ) output signal levels from the sensor (50), and upon the basis of this comparison validates (or rejects) measurements made with the probe. Additionally, the interface determines whether measurements made with the probe are taken upon the basis of outputs generated by the sensors (50) due to a shock wave in the stylus (24) of the probe, or as a result of strain in the stylus (24); as an alternative, measurements may be made only on the basis of strain. (see image in original document)

ABSTRACT WORD COUNT: 172

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 940706 A1 Published application (A1with Search Report  
;A2without Search Report)  
Examination: 950215 A1 Date of filing of request for examination:  
941219  
Examination: 960918 A1 Date of despatch of first examination report:  
960801  
Grant: 990127 B1 Granted patent  
Oppn: 991222 B1 Opposition 01/19991026 Opposition filed  
Firma Carl Zeiss (10820) Patentabteilung  
D-73446 Oberkochen (DE)

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9904	371
CLAIMS B	(German)	9904	369
CLAIMS B	(French)	9904	407
SPEC B	(English)	9904	4766
Total word count - document A			0
Total word count - document B			5913
Total word count - documents A + B			5913

7/5/8 (Item 7 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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00560179

TOUCH PROBE

MESSFUHLER

CAPTEUR TACTILE

PATENT ASSIGNEE:

Renishaw Metrology Limited, (1336770), New Mills, Wotton-Under-Edge,  
Gloucestershire GL12 8JR, (GB), (applicant designated states:



CH;DE;ES;FR;GB;IT;LI;SE)

INVENTOR:

HAJDUKIEWICZ, Peter, 49 Bradley Street, Wotton-Under-Edge Gloucest. GL12 7AR, (GB)  
HELLEN, Graham, Andrew, 56 Mountbatten Close North Yate, Bristol Avon BS17 5TE, (GB)  
HELLIER, Peter, Kenneth, 6 Highlands Drive, North Nibleyire Gloucestershire GL11 6DX, (GB)  
DABBS, John, Christopher, Itton View 41 Piercefield, Chepstow Gwent NP6 5JB, (GB)  
McMURTRY, David, Robert, 20 Tabernacle Road, Wotton-Under-Edge Gloucest. GL12 7EF, (GB)

LEGAL REPRESENTATIVE:

Jones, Bruce Graeme Roland et al (69531), Renishaw plc, Patent Department, New Mills, Wotton-under Edge, Gloucestershire GL12 8JR, (GB)

PATENT (CC, No, Kind, Date): EP 566719 A1 931027 (Basic)  
EP 566719 B1 970219  
WO 9309398 930513

APPLICATION (CC, No, Date): EP 92923048 921109; WO 92GB2070 921109

PRIORITY (CC, No, Date): GB 9123853 911109; GB 9124777 911121; GB 9215512 920722

DESIGNATED STATES: CH; DE; ES; FR; GB; IT; LI; SE

INTERNATIONAL PATENT CLASS: G01B-021/04; B23Q-003/155;

NOTE:

No A-document published by EPO

LEGAL STATUS (Type, Pub Date, Kind, Text):

Lapse: 020619 B1 Date of lapse of European Patent in a contracting state (Country, date): ES 19970219, FR 19970718, SE 19970519,  
Application: 931027 A1 Published application (A1with Search Report ;A2without Search Report)  
Examination: 931027 A1 Date of filing of request for examination: 930608  
Grant: 970219 B1 Granted patent  
Change: 970305 B1 Miscellaneous (change)  
Lapse: 980114 B1 Date of lapse of the European patent in a Contracting State: FR 970718  
Oppn None: 980211 B1 No opposition filed  
Lapse: 980311 B1 Date of lapse of the European patent in a Contracting State: FR 970718, SE 970519

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPAB97	1014
CLAIMS B	(German)	EPAB97	1023
CLAIMS B	(French)	EPAB97	1152
SPEC B	(English)	EPAB97	2826
Total word count - document A			0
Total word count - document B			6015
Total word count - documents A + B			6015

7/5/9 (Item 8 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00559207

TOUCH PROBE

Tastkopf

SONDE DE CONTACT

PATENT ASSIGNEE:

Renishaw Metrology Limited, (1336770), New Mills, Wotton-Under-Edge, Gloucestershire GL12 8JR, (GB), (applicant designated states: CH;DE;FR;GB;IT;LI)

INVENTOR:

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Gloucestershire GL12 7EF, (GB)  
HAJDUKIEWICZ, Peter 49 Bradley Street, Wotton-Under-Edge, Gloucestershire  
GL12 7AR, (GB)

LEGAL REPRESENTATIVE:

Jones, Bruce Graeme Roland et al (69531), Renishaw plc, Patent  
Department, New Mills, Wotton-under Edge, Gloucestershire GL12 8JR,  
(GB)

PATENT (CC, No, Kind, Date): EP 548328 A1 930630 (Basic)  
EP 548328 B1 961218  
WO 9301466 930121

APPLICATION (CC, No, Date): EP 92915027 920709; WO 92GB1244 920709

PRIORITY (CC, No, Date): GB 9114945 910711

DESIGNATED STATES: CH; DE; FR; GB; IT; LI

INTERNATIONAL PATENT CLASS: G01B-007/00; G01B-005/00; G01B-003/00;

CITED PATENTS (WO A): EP 406782 A; EP 406782 A; EP 243766 A; EP 426492 A;  
EP 426492 A; DE 3811851 A; EP 304881 A; GB 2163554 A

NOTE:

No A-document published by EPO

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 930630 A1 Published application (A1with Search Report  
;A2without Search Report)  
Examination: 931013 A1 Date of filing of request for examination:  
930224  
Examination: 941123 A1 Date of despatch of first examination report:  
941006  
Grant: 961218 B1 Granted patent  
Lapse: 971029 B1 Date of lapse of the European patent in a  
Contracting State: FR 970516  
Oppn None: 971210 B1 No opposition filed  
Lapse: 980121 B1 Date of lapse of the European patent in a  
Contracting State: CH 961218, FR 970516, LI  
961218  
Lapse: 980121 B1 Date of lapse of the European patent in a  
Contracting State: CH 961218, FR 970516, LI  
961218

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPAB96	410
CLAIMS B	(German)	EPAB96	411
CLAIMS B	(French)	EPAB96	498
SPEC B	(English)	EPAB96	2987
Total word count - document A			0
Total word count - document B			4306
Total word count - documents A + B			4306

7/5/10 (Item 9 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00546411

Temperature sensor for coordinate positioning apparatus.

Temperatursensor fur einen Koordinanten-Positionierungsapparat.

Capteur de temperature pour un appareil de positionnement des coordonnees.

PATENT ASSIGNEE:

Renishaw Metrology Limited, (1336770), New Mills, Wotton-Under-Edge,  
Gloucestershire GL12 8JR, (GB), (applicant designated states:  
CH;DE;FR;GB;IT;LI)

INVENTOR:

McMurtry, David Roberts , 20 Tabernacle Road, Wotton-Under-Edge,  
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LEGAL REPRESENTATIVE:

Jackson, John Timothy et al (45974), Renishaw plc Patent Department New  
Mills, Wotton-under-Edge Gloucestershire GL12 8JR, (GB)

PATENT (CC, No, Kind, Date): EP 546784 A2 930616 (Basic)  
EP 546784 A3 930818  
APPLICATION (CC, No, Date): EP 92311137 921207;  
PRIORITY (CC, No, Date): GB 9126269 911211  
DESIGNATED STATES: CH; DE; FR; GB; IT; LI  
INTERNATIONAL PATENT CLASS: G01B-005/00;  
CITED PATENTS (EP A): DE 3823373 A; DE 3620118 A

ABSTRACT EP 546784 A2

A coordinate measuring machine (10,12,14,16) carries a probe head (18), to which may be fitted a probe (20) for measuring a workpiece (24). An infra-red thermal imaging temperature sensor is mounted in or on the probe head (18), to determine the temperature of the workpiece, e.g. so that appropriate compensation may be made to the measurements to allow for thermal expansion. Alternatively, a separately-mounted thermal imaging temperature sensor (50) may be provided for determining the temperature of the workpiece (24). (see image in original document)

ABSTRACT WORD COUNT: 87

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 930616 A2 Published application (A1with Search Report  
;A2without Search Report)  
Search Report: 930818 A3 Separate publication of the European or  
International search report  
Examination: 940316 A2 Date of filing of request for examination:  
940111  
Withdrawal: 941214 A2 Date on which the European patent application  
was withdrawn: 941021

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	307
SPEC A	(English)	EPABF1	2110
Total word count - document A			2417
Total word count - document B			0
Total word count - documents A + B			2417

7/5/11 (Item 10 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

(c) 2002 European Patent Office. All rts. reserv.

00541876

Interchangeable probe head.

Auswechselbarer Probekopf.

Sonde a tete interchangeable.

PATENT ASSIGNEE:

Renishaw Metrology Limited, (1336770), New Mills, Wotton-Under-Edge,  
Gloucestershire GL12 8JR, (GB), (applicant designated states:  
CH;DE;FR;GB;IT;LI)

INVENTOR:

McMurtry, David Roberts , 20 Tabernacle Road, Wotton-Under-Edge,  
Gloucestershire GL12 7EF, (GB)

LEGAL REPRESENTATIVE:

Jones, Bruce Graeme Roland et al (69531), Renishaw plc, Patent  
Department, New Mills, Wotton-under Edge, Gloucestershire GL12 8JR,  
(GB)

PATENT (CC, No, Kind, Date): EP 523906 A1 930120 (Basic)

APPLICATION (CC, No, Date): EP 92306270 920708;

PRIORITY (CC, No, Date): GB 9114946 910711

DESIGNATED STATES: CH; DE; FR; GB; IT; LI

INTERNATIONAL PATENT CLASS: G01B-005/00; B23Q-003/155;

CITED PATENTS (EP A): DE 3811851 A; EP 406781 A; WO 8905210 A; DE 3011002 A

ABSTRACT EP 523906 A1

A probe head (10) includes a support (12) by which the probe head is

retained on the quill of a coordinate positioning machine, and a rotor (14) which is magnetically retained on the support (12). The rotor (14) is rotatable between a plurality of indexed angular positions provided by a ring of balls (26) and three adjacently positioned pairs of rollers (24). A drive dog shaft (20) is linearly movable to disengage the balls (26) from the rollers (24), and rotatable to rotate the rotor (14) to a new indexed position, whereupon the drive dog shaft (20) is retracted to re-engage a set of three balls (26) with the rollers (24). **Exchange** of a measuring probe (16) is performed by removing the entire rotor (14), and exchanging it for a further rotor carrying a different measuring probe. The engagement elements provided by rollers (24) and balls (26) thus serve the functions of (a) indexing and (b) repeatably retaining a rotor (14) on the support (12). This reduces the number of kinematic locations required between the movable arm of the machine and the probe (16) during the course of normal operation of a probe head to which a number of probes (16) are releasably couplable. (see image in original document)

ABSTRACT WORD COUNT: 211

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 930120 A1 Published application (A1with Search Report ;A2without Search Report)  
 Examination: 930811 A1 Date of filing of request for examination: 930617  
 Examination: 940817 A1 Date of despatch of first examination report: 940704  
 Lapse: 960904 B1 Date of lapse of the European patent in a Contracting State: FR 960322  
 Oppn None: 961016 B1 No opposition filed  
 Lapse: 970326 B1 Date of lapse of the European patent in a Contracting State: CH 951025, LI 951025, FR 960322  
 Lapse: 970326 B1 Date of lapse of the European patent in a Contracting State: CH 951025, LI 951025, FR 960322

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPAB95	406
CLAIMS B	(German)	EPAB95	421
CLAIMS B	(French)	EPAB95	416
SPEC B	(English)	EPAB95	1341
Total word count - document A			0
Total word count - document B			2584
Total word count - documents A + B			2584

7/5/12 (Item 11 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

(c) 2002 European Patent Office. All rts. reserv.

00537229

Touch probe.

Kontaktprobe.

Palpeur a contact.

PATENT ASSIGNEE:

Renishaw Metrology Limited, (1336770), New Mills, Wotton-Under-Edge, Gloucestershire GL12 8JR, (GB), (applicant designated states: CH;DE;FR;GB;IT;LI;SE)

INVENTOR:

McMurtry, David Roberts , 20 Tabernacle Road, Wotton-Under-Edge, Gloucestershire GL12 8JR, (GB)  
 Hajdukiewicz, Peter, The Latches, Huntingford, Wotton-Under-Edge, Gloucestershire, (GB)  
 Wilson, David, The Fennels, Regent Street, Stonehouse, Gloucestershire GL10 2AA, (GB)  
 Hellier, Peter Kenneth, 6 Highlands Drive, North Nibley, Gloucestershire

GL11 6DX, (GB)  
LEGAL REPRESENTATIVE:

Jones, Bruce Graeme Roland et al (69531), Renishaw plc, Patent  
Department, New Mills, Wotton-under Edge, Gloucestershire GL12 8JR,  
(GB)

PATENT (CC, No, Kind, Date): EP 501710 A1 920902 (Basic)  
EP 501710 B1 950412

APPLICATION (CC, No, Date): EP 92301504 920224;

PRIORITY (CC, No, Date): PC GB 910225; GB 9120818 911001; GB 9123853 911109

DESIGNATED STATES: CH; DE; FR; GB; IT; LI; SE

INTERNATIONAL PATENT CLASS: G01B-005/00; G01B-007/00;

CITED PATENTS (EP A): EP 392660 A; EP 146697 A; DE 3811851 A

ABSTRACT EP 501710 A1

A touch probe includes a stylus module (54) and a sensing module (52) to which the stylus module is releasably securable by means of a magnetic coupling. The sensing module comprises a strain sensitive load cell on which the stylus module is supported, and which senses strain in the stylus on contact with a surface. The stylus module provides for overtravel of the probe; a stylus-supporting member being biased into a kinematic rest position with respect to the casing of the stylus module. The biasing force in the stylus module is chosen with regard to the length and configuration of stylus. This modular system enables automated stylus changing without the need to adjust the biasing force on the stylus-supporting member when different lengths of styli are employed.

(see image in original document)

ABSTRACT WORD COUNT: 134

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 920902 A1 Published application (A1with Search Report  
;A2without Search Report)

Examination: 930421 A1 Date of filing of request for examination:  
930224

Examination: 940608 A1 Date of despatch of first examination report:  
940421

Grant: 950412 B1 Granted patent

Lapse: 960103 B1 Date of lapse of the European patent in a  
Contracting State: FR 950908

Lapse: 960110 B1 Date of lapse of the European patent in a  
Contracting State: FR 950908

Lapse: 960124 B1 Date of lapse of the European patent in a  
Contracting State: FR 950908, SE 950712

Oppn None: 960403 B1 No opposition filed

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	966
CLAIMS B	(English)	EPAB95	1046
CLAIMS B	(German)	EPAB95	1047
CLAIMS B	(French)	EPAB95	1174
SPEC A	(English)	EPABF1	5498
SPEC B	(English)	EPAB95	5533
Total word count - document A			6464
Total word count - document B			8800
Total word count - documents A + B			15264

7/5/13 (Item 12 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00508349

SEMICONDUCTIVE COPOLYMERS FOR USE IN LUMINESCENT DEVICES

HALBLEITERCOPOLYMERE ZUR VERWENDUNG IN LUMINESZIERENDEN VORRICHTUNGEN

COPOLYMERES SEMICONDUCTEURS UTILISES DANS DES DISPOSITIFS LUMINESCENTS

PATENT ASSIGNEE:

Cambridge Display Technology Limited, (1621152), 181A Huntington Road,  
Cambridge, CB3 0DJ, (GB), (applicant designated states:  
AT;BE;CH;DE;DK;ES;FR;GB;GR;IT;LI;LU;NL;SE)

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PATENT (CC, No, Kind, Date): EP 544795 A1 930609 (Basic)  
EP 544795 B1 990428  
WO 9203490 920305

APPLICATION (CC, No, Date): EP 91915877 910822; WO 91GB1420 910822

PRIORITY (CC, No, Date): GB 9018698 900824

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IT; LI; LU; NL; SE

INTERNATIONAL PATENT CLASS: C08G-061/02; C08G-061/12; H01B-001/12;

H05B-033/14;

CITED PATENTS (WO A): US 4900782 A; DE 3704411 A; EP 182548 A; US 3621321 A

CITED REFERENCES (WO A):

POLYMER BULLETIN, vol. 21, no. 4, April 1989, (Heidelberg, DE), H.-K.

SHIM et al.: "Electrical conductivity of polyblends of  
poly(1,4-phenylene vinylene) and poly(2,5-dimethoxy-1,4-phenylene  
vinylene)", pages 409-413

JOURNAL OF MOLECULAR ELECTRONICS, vol. 4, no. 1, January 1988,  
(Chichester, GB), R.H. FRIEND: "Optical investigations of conjugated  
polymers", pages 37-46 (cited in the application)

CHEMISTRY LETTERS, no. 7, 1988, (Tokyo, JP), T. MOMII et al.: "Synthesis  
of poly(2,5-dimethoxy-p-phenylenevinylene) film through a new precursor  
polymer", pages 1201-1204 (cited in the application);

NOTE:

No A-document published by EPO

LEGAL STATUS (Type, Pub Date, Kind, Text):

Oppn: 20000315 B1 Opposition 01/20000126 Opposition filed  
UNIAX CORPORATION (83400) 6780 Cortona Drive,  
Santa Barbara, California 93117, US  
(Representative:) Paget, Hugh Charles Edward  
(34621) MEWBURN ELLIS York House 23 Kingsway  
London WC2B 6HP (GB)

Application: 930609 A1 Published application (A1with Search Report  
;A2without Search Report)

Oppn: 20000322 B1 Opposition 01/20000126 Opposition filed  
UNIAX CORPORATION (83400) 6780 Cortona Drive,  
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(Representative:) Paget, Hugh Charles Edward  
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02/20000128 Opposition filed  
Sumitomo Chemical Co., Ltd. (59381) 5-33,  
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Osaka-shi Osaka 541 JP

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Examination: 930609 A1 Date of filing of request for examination:  
930219

Change: 930908 A1 Inventor (change)

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CAMBRIDGE RESEARCH AND INNOVATION LIMITED  
(1300220) 13 Station Road Cambridge CB1 2JB  
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AT;BE;CH;DE;DK;ES;FR;GB;GR;IT;LI;LU;NL;SE)

Change: 940803 A1 Representative (change)

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Examination: 950524 A1 Date of despatch of first examination report:  
950411

\*Assignee: 990331 A1 Applicant (transfer of rights) (change):  
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AT;BE;CH;DE;DK;ES;FR;GB;GR;IT;LI;LU;NL;SE)

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rights (change): Cambridge Display Technology  
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CB1 2JB (GB) (applicant designated states:  
AT;BE;CH;DE;DK;ES;FR;GB;GR;IT;LI;LU;NL;SE)

Grant: 990428 B1 Granted patent  
LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9917	1661
CLAIMS B	(German)	9917	1594
CLAIMS B	(French)	9917	1751
SPEC B	(English)	9917	12986
Total word count - document A			0
Total word count - document B			17992
Total word count - documents A + B			17992

7/5/14 (Item 13 from file: 348)  
DIALOG(R) File 348:EUROPEAN PATENTS  
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00508123

**PATTERNING OF SEMICONDUCTIVE POLYMERS**  
**STRUKTURIERUNG VON HALBLEITERPOLYMEREN**

**PRODUCTION D'UNE CONFIGURATION SUR DES POLYMERES SEMICONDUCTEURS**

**PATENT ASSIGNEE:**

Cambridge Display Technology Limited, (1621150), 13 Station Road,  
Cambridge, CB1 2JB, (GB), (applicant designated states:  
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**INVENTOR:**

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**KRAFT, Arno**, 3 Pemberton Terrace, Cambridge CB2 1JA, (GB)  
**BURN, Paul**, Christs College, Cambridge, (GB)  
**BROWN, Adam**, Whitfield House 69 Grange Road, Cambridge CB3 9AA, (GB)  
**FRIEND, Richard**, 37 Barton Road, Cambridge CB3 9LG, (GB)

**LEGAL REPRESENTATIVE:**

Daniels, Jeffrey Nicholas et al (69921), Page White & Farrer 54 Doughty  
Street, London WC1N 2LS, (GB)

PATENT (CC, No, Kind, Date): EP 544771 A1 930609 (Basic)  
EP 544771 B1 960313  
WO 9203491 920305

APPLICATION (CC, No, Date): EP 91915529 910822; WO 91GB1421 910822

PRIORITY (CC, No, Date): GB 9018698 900824

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IT; LI; LU; NL; SE

INTERNATIONAL PATENT CLASS: C08G-061/02; C08G-061/12; H01B-001/12;  
H05B-033/14;

CITED PATENTS (WO A): US 4900782 A; DE 3704411 A; EP 182548 A; US 3621321 A

CITED REFERENCES (WO A):

POLYMER BULLETIN, vol. 21, no. 4, April 1989, (Heidelberg, DE), H.-K.  
SHIM et al.: "Electrical conductivity of polyblends of  
poly(1,4-phenylene vinylene) and poly(2,5-dimethoxy-1,4-phenylene

vinylene)", pages 409-413

JOURNAL OF MOLECULAR ELECTRONICS, vol. 4, no. 1, January 1988,  
(Chichester, GB), R.H. FRIEND: "Optical investigations of conjugated  
polymers", pages 37-46 (cited in the application)

CHEMISTRY LETTERS, no. 7, 1988, (Tokyo, JP), T. MOMII et al.: "Synthesis  
of poly(2,5-dimethoxy-p-phenylenevinylene) film through a new precursor  
polymer", pages 1201-1204 (cited in the application);

NOTE:

No A-document published by EPO

LEGAL STATUS (Type, Pub Date, Kind, Text):

Lapse: 020619 B1 Date of lapse of European Patent in a  
contracting state (Country, date): AT  
19960313, BE 19960313, CH 19960313, LI  
19960313, DK 19960313, ES 19960313, FR  
19960809, GR 19960313, IT 19960313, LU  
19960831, SE 19960613,

Lapse: 20000202 B1 Date of lapse of European Patent in a  
contracting state (Country, date): AT  
19960313, BE 19960313, CH 19960313, LI  
19960313, DK 19960313, FR 19960809, GR  
19960313, IT 19960313, LU 19960831, SE  
19960613,

Application: 930609 A1 Published application (A1with Search Report  
;A2without Search Report)

Lapse: 20000209 B1 Date of lapse of European Patent in a  
contracting state (Country, date): AT  
19960313, BE 19960313, CH 19960313, LI  
19960313, DK 19960313, FR 19960809, GR  
19960313, IT 19960313, LU 19960831, SE  
19960613,

Examination: 930609 A1 Date of filing of request for examination:  
930219

\*Assignee: 940629 A1 Applicant (transfer of rights) (change):  
CAMBRIDGE RESEARCH AND INNOVATION LIMITED  
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(GB) (applicant designated states:  
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Change: 940824 A1 Representative (change)

\*Assignee: 940824 A1 Applicant (transfer of rights) (change):  
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13 Station Road Cambridge, CB1 2JB (GB)  
(applicant designated states:  
AT;BE;CH;DE;DK;ES;FR;GB;GR;IT;LI;LU;NL;SE)

Change: 940831 A1 Inventor (change)

Examination: 950621 A1 Date of despatch of first examination report:  
950504

Grant: 960313 B1 Granted patent

Lapse: 961030 B1 Date of lapse of the European patent in a  
Contracting State: SE 960613

Lapse: 961227 B1 Date of lapse of the European patent in a  
Contracting State: BE 960313, SE 960613

Lapse: 970115 B1 Date of lapse of the European patent in a  
Contracting State: AT 960313, BE 960313, SE  
960613

Oppn None: 970305 B1 No opposition filed

Lapse: 970319 B1 Date of lapse of the European patent in a  
Contracting State: AT 960313, BE 960313, FR  
960809, SE 960613

Lapse: 970709 B1 Date of lapse of the European patent in a  
Contracting State: AT 960313, BE 960313, CH  
960313, LI 960313, FR 960809, SE 960613

Lapse: 970709 B1 Date of lapse of the European patent in a  
Contracting State: AT 960313, BE 960313, CH  
960313, LI 960313, FR 960809, SE 960613

Lapse: 980408 B1 Date of lapse of the European patent in a  
Contracting State: AT 960313, BE 960313, CH



960313, LI 960313, DK 960313, FR 960809, SE  
960613

Lapse: 991020 B1 Date of lapse of European Patent in a  
contracting state (Country, date): AT  
19960313, BE 19960313, CH 19960313, LI  
19960313, DK 19960313, FR 19960809, IT  
19960313, SE 19960613,

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPAB96	957
CLAIMS B	(German)	EPAB96	849
CLAIMS B	(French)	EPAB96	950
SPEC B	(English)	EPAB96	12946
Total word count - document A			0
Total word count - document B			15702
Total word count - documents A + B			15702

7/5/15 (Item 1 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00746942 \*\*Image available\*\*

MEASURING PROBE WITH DIAPHRAGMS AND MODULES

SONDE DE MESURE A MEMBRANES ET MODULES

Patent Applicant/Assignee:

RENISHAW PLC, New Mills, Wotton-under-Edge, Gloucestershire GL12 8JR, GB,  
GB (Residence), GB (Nationality), (For all designated states except:  
US)

Patent Applicant/Inventor:

BUTTER Andrew Geoffrey, 7 Drylease, Wotton-under-Edge, Gloucestershire  
GL12 7AN, GB, GB (Residence), GB (Nationality), (Designated only for:  
US)

MCMURTRY David Roberts , 20 Tabernacle Road, Wotton-under-Edge,  
Gloucestershire GL12 7EF, GB, GB (Residence), IE (Nationality),  
(Designated only for: US

Legal Representative:

WAITE John, Renishaw plc, Patent Dept., New Mills, Wotton-under-Edge,  
Gloucestershire GL12 8JR, GB

Patent and Priority Information (Country, Number, Date):

Patent: WO 200060307 A1 20001012 (WO 0060307)

Application: WO 2000GB1309 20000406 (PCT/WO GB0001309)

Priority Application: GB 997643 19990406

Designated States: CN JP US

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Main International Patent Class: G01B-005/012

International Patent Class: G01B-011/03

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 4684

English Abstract

A measuring probe includes a suspension module (112) in which a stylus holder (140) is suspended from a housing on a pair of diaphragms (142, 144). At least one of the diaphragms is formed with spiral cut-outs whereby the stylus, which is connected at the centre of the diaphragms, is able to move transversely of the axis of the housing as the stylus holder pivots when transverse forces are applied to the stylus tip. A transducer module (110) is releasably supported on the suspension module by a kinematic mounting (116, 118) and is retained in position by magnets (120). The transducer module contains optical transducers (200, 210, 220) for measuring the deflection of the stylus. The stylus (150) carries a

curved mirror or a Fresnel lens (212) with optical characteristics according to its length.

#### French Abstract

L'invention concerne une sonde de mesure, comprenant un module de suspension (112) qui permet de suspendre un porte-stylet (140) a une paire de membranes (142, 144) dans un logement. Au moins deux membranes sont formees au moyen de decoupes en spirale, le stylet relie au centre desdites membranes pouvant se deplacer de maniere transversale par rapport a l'axe du logement, lorsque l'application de forces sur l'extremite dudit stylet le fait tourner. Un module de transducteur (110) est supporte liberable sur le module de suspension au moyen d'un dispositif de montage (116, 118) cinetique, et est maintenu en position au moyen d'aimants (120). Le module de transducteur contient des transducteurs optiques (200, 210, 220) qui mesurent la deflexion du stylet. Ledit stylet (150) porte un miroir incurve ou une lentille de Fresnel (212) possedant des caracteristiques optiques dependants de sa longueur.

Legal Status (Type, Date, Text)

Publication 20001012 A1 With international search report.

7/5/16 (Item 2 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00394421 \*\*Image available\*\*

**INSPECTION SYSTEM FOR COORDINATE POSITIONING MACHINE**

**SYSTEME DE CONTROLE POUR MACHINE A POSITIONNER LES COORDONNEES**

Patent Applicant/Assignee:

RENISHAW PLC,  
McMURTRY David Roberts,  
HELLEN Graham Andrew,  
SULLIVAN Jonathan Shamus,

Inventor(s):

McMURTRY David Roberts ,  
HELLEN Graham Andrew,  
SULLIVAN Jonathan Shamus

Patent and Priority Information (Country, Number, Date):

Patent: WO 9735164 A1 19970925

Application: WO 97GB688 19970313 (PCT/WO GB9700688)

Priority Application: GB 965609 19960316

Designated States: JP US AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Main International Patent Class: G01B-021/04

International Patent Class: G01B-07:012

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 7054

#### English Abstract

A coordinate measuring machine carries a modular touch trigger probe (100), via an adaptor (200), on its movable arm (10). The probe (100) consists of a retaining module (102) which is mounted to the adaptor (200), and a stylus module (104) which is magnetically connected to the retaining module (102) in a manner which enables the **exchange** of one stylus module (104) for another. The adaptor consists of a pair of coupling members (202, 204) which are urged into mutual engagement by magnets (212). Automatic **exchange** of stylus modules occurs by using movement of the arm (10) to disengage a stylus module (104) from the retaining module (102). Similarly, the **exchange** of one probe for another is carried out by using movement of the arm (10) to disengage the lower coupling member (204) from the upper coupling member (202). Because magnetic attraction between the coupling members (202, 204) is

necessarily greater than the attraction between retaining and stylus modules (102, 104), lower coupling member (204) has three levers (222), operable by downward relative movement of a release ring (220), which occurs during uncoupling. The levers (222) provide the mechanical advantage necessary to enable movement of the arm (10) to overcome the relatively large magnetic attraction force between coupling members (202, 204).

#### French Abstract

Une machine de mesure de coordonnees supporte un palpeur (100) modulaire a declenchement par effleurement, par l'intermediaire d'un adaptateur (200), sur son bras mobile (10). Le palpeur (100) se compose d'un module de retenue (102) qui est fixe sur l'adaptateur (200), et d'un module de stylet (104) qui est connecte, de maniere magnetique, au module de retenue (102) de maniere a permettre le remplacement d'un module de stylet (104) par un autre module. L'adaptateur se compose d'une paire d'elements d'accouplement (202, 204) qui sont mis en prise en force par des aimants (212). Le changement automatique des modules de stylet s'effectue par deplacement du bras (10) pour degager un module de stylet (104) du module de retenue (102). De la meme maniere, le remplacement d'un palpeur par un autre est effectue par deplacement du bras (10) pour degager l'element d'accouplement inferieur (204) de l'element d'accouplement superieur (202). Etant donne que l'attraction magnetique entre les elements d'accouplement (202, 204) est necessairement superieure a l'attraction entre les modules de retenue et de stylet (102, 104), l'element d'accouplement inferieur (204) comporte trois leviers (222), qui peuvent etre actionnes par le deplacement relatif vers le bas d'un anneau de liberation (220), qui se produit pendant le decouplement. Les leviers (222) offrent l'avantage mecanique necessaire pour permettre le deplacement du bras (10) a l'encontre de la force d'attraction magnetique relativement importante entre les elements d'accouplement (202, 204).

7/5/17 (Item 3 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00333801 \*\*Image available\*\*

#### TOUCH PROBE

#### SONDE DE CONTACT A EFFLEUREMENT

Patent Applicant/Assignee:

RENISHAW PLC,

McMURTRY David Roberts,

Inventor(s):

McMURTRY David Roberts

Patent and Priority Information (Country, Number, Date):

Patent: WO 9616312 A1 19960530

Application: WO 95GB2669 19951115 (PCT/WO GB9502669)

Priority Application: GB 9423176 19941117

Designated States: JP US AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE

Main International Patent Class: G01B-005/012

International Patent Class: G01B-07:012

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 2392

#### English Abstract

A touch probe has a sensing module (10) and a stylus module (12) magnetically retained and kinematically located thereon. A stylus holder (102) is biased into a kinematic rest location within the stylus module (12). The sensing module (10) has a fixed structure provided by connector (14), cylindrical housing (16), and circuit supporting structure (18). An intermediate load member (30) is connected to structure (18) at one end by means of a relatively resilient diaphragm (40) and at the other by

three supporting struts (50), extending at an angle of 45degrees to the axis A. The load member (30) carries a circular retaining plate (22) upon which the stylus module (12) is located. During a measurement operation a force applied to stylus tip (112) will cause bending of struts (50), and deformation of diaphragm (40) prior to movement of the stylus holder (102) out of its kinematic rest position. Strain gauges provided on the struts (50) detect this bending, and generate an output signal accordingly.

#### French Abstract

Cette sonde de contact a effleurement possede un bloc (10) detecteur ainsi qu'un bloc (12) palpeur retenu magnetiquement au premier bloc et place de facon cinematique sur celui-ci. Un support (102) de palpeur est sollicite dans une position de repos cinematique a l'interieur du bloc (12) palpeur. Le bloc (10) detecteur possede une structure fixe pourvue d'un dispositif de raccordement (14), d'un boitier (16) cylindrique ainsi que d'une structure (18) de support de circuit. Un element (30) de charge intermediaire est relie a la structure (18) au niveau d'une extremite de celle-ci par un diaphragme (40) relativement elastique, et au niveau de l'autre extremite par trois contre-fiches de support (50) formant un angle de 45degrees avec l'axe A. Cet element (30) de charge soutient une plaque (22) circulaire de retenue sur laquelle on a place le bloc (12) palpeur. Au cours d'une operation de mesure, une force appliquee sur l'embout (112) du palpeur provoque le flechissement des contre-fiches (50) ainsi que la deformation du diaphragme (40) prealablement au deplacement du support (102) du palpeur hors de sa position de repos cinematique. Des jauges de contrainte montees sur les contre-fiches (50) detectent ce flechissement et produisent un signal de sortie de maniere conforme.

7/5/18 (Item 4 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00235138 \*\*Image available\*\*

#### TOUCH PROBE

#### CAPTEUR TACTILE

Patent Applicant/Assignee:

RENISHAW METROLOGY LIMITED,

Inventor(s):

HAJDUKIEWICZ Peter,

HELLEN Graham Andrew,

HELLIER Peter Kenneth,

DABBS John Christopher,

McMURTRY David Robert

Patent and Priority Information (Country, Number, Date):

Patent: WO 9309398 A1 19930513

Application: WO 92GB2070 19921109 (PCT/WO GB9202070)

Priority Application: GB 9123853 19911109; GB 9124777 19911121; GB 9215512 19920722

Designated States: JP AT BE CH DE DK ES FR GB GR IE IT LU MC NL SE

Main International Patent Class: G01B-021/04

International Patent Class: B23Q-03:155

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 6091

#### English Abstract

A magazine has a plurality of storage ports (100) each of which retains a stylus module (14) for use in measuring workpiece dimensions on a coordinate measuring machine. Each storage port (100) is configured as a pair of jaws provided by docking inserts (114). A permanent magnet (118) is mounted on each docking insert (114). The lower casing of the stylus

module (14) is urged against the inwardly facing edges (116) of the docking inserts (114) by the magnetic attraction force due to the magnets (118). The stylus module (14) is engaged with a retaining module (on the quill of the machine) by moving the retaining module in a downward sense to engage the stylus module (14); further downward movement disengages the stylus module (14) from the storage port (100), thus enabling engagement of such a stylus module and removal of the module from the storage port in a single continuous movement.

#### French Abstract

Magasin comprenant une pluralite de bornes de stockage (100), retenant chacune un bloc palpeur (14) destine a mesurer les dimensions d'une piece usinee sur une machine de mesure de coordonnees. Chaque borne de stockage (100) est configuree sous forme d'une paire de machoires a l'aide d'inserts de retenue (114). Un aimant permanent (118) est fixe sur chaque insert de retenue (114). Le boitier inferieur du bloc palpeur (14) est maintenu contre les aretes interieures opposees (116) des inserts de retenue (114) par la force d'attraction magnetique exercee par les aimants (118). Le defilement vers le bas d'un module de retenue (situe sur l'arbre de la machine) permet a celui-ci de venir s'enclencher sur le bloc palpeur (14) pour en assurer le maintien. Son déplacement complet vers le bas permet de desaccoupler le bloc palpeur (14) de la borne de stockage (100). Ceci permet donc de fixer et de desaccoupler un tel bloc palpeur de la borne de stockage d'un seul mouvement continu.

1

7/5/19 (Item 5 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
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00227219 \*\*Image available\*\*

#### TOUCH PROBE

#### SONDE DE CONTACT

Patent Applicant/Assignee:

RENISHAW METROLOGY LIMITED,  
McMURTRY David Roberts,  
HAJDUKIEWICZ Peter,

Inventor(s):

McMURTRY David Roberts ,  
HAJDUKIEWICZ Peter

Patent and Priority Information (Country, Number, Date):

Patent: WO 9301466 A1 19930121

Application: WO 92GB1244 19920709 (PCT/WO GB9201244)

Priority Application: GB 9114945 19910711

Designated States: JP US AT BE CH DE DK ES FR GB GR IT LU MC NL SE

Main International Patent Class: G01B-007/00

International Patent Class: G01B-05:00; G01B-03:00

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 3632

#### English Abstract

A touch probe (10) includes a fixed structure (12) and a retaining member (16) supported thereon via a strain sensitive load cell (14). A stylus (28) having a supporting body (29) is releasably retained upon the retaining member (16) by means of two cooperating magnets (36, 42), which urge two sets of engagement elements (40, 44) into engagement to kinematically locate the stylus (28) relative to the retaining member (16). The stylus (28) may be removed from engagement with the retaining member (16) in the course of a stylus changing operation, wherein a differently configured stylus is mounted upon the retaining member (16). The stylus (28) may also undergo tilting displacement relative to the retaining member (16) in the course of a measuring operation; the magnets (36, 42) cooperating to return the stylus (28) to its rest position

relative to the retaining member (16) after the measuring operation. The engagement elements (36, 42) which provide kinematic location of the stylus (28) and retaining member (16), together with the magnets (36, 42) thus perform two functions: locating and releasably retaining the stylus (28) during a stylus change operation, and providing for overtravel displacement of the stylus (28) during the measuring operation.

#### French Abstract

Une sonde de contact (10) comprend une structure fixe (12) et un element de retenue (16) qui y est soutenu par l'intermediaire d'un dynamometre (14) sensible a la contrainte. Un palpeur (28) comprenant un corps de support (29) est retenu de maniere amovible sur l'element de retenue (16) par l'intermediaire de deux aimants cooperants (36, 42) qui pousse les deux ensembles d'elements (40, 44) de contact a entrer en contact mutuel afin de positionner le palpeur (28) de maniere cinematique par rapport a l'element de retenue (16). Le palpeur (28) peut etre deplace hors de sa position de contact avec l'element de retenue au cours d'une operation de changement de palpeur ou un palpeur de configuration differente est monte sur l'element de retenue (16). Le palpeur (28) peut aussi etre bascule par rapport a cet element (16) au cours d'une operation de mesure; les aimants (36, 42) cooperent de facon a ramener le palpeur (28) vers sa position de repos par rapport a l'element de retenue (16) apres l'operation de mesure. Les elements de contact (36, 42), qui permettent de positionner de maniere cinematique le palpeur (28) et l'element de retenue (16), ainsi que les aimants (36, 42), remplissent deux fonctions: celle de positionner et de retenir de facon liberable le palpeur (28) au cours d'une operation de changement de palpeur, et celle de permettre le déplacement du palpeur (28) au-dela de la position limite au cours de l'operation de mesure.

7/5/20 (Item 6 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00206296

#### PATTERNING OF SEMICONDUCTIVE POLYMERS

#### PRODUCTION D'UNE CONFIGURATION SUR DES POLYMERES SEMICONDUCTEURS

Patent Applicant/Assignee:

CAMBRIDGE RESEARCH AND INNOVATION LIMITED,  
CAMBRIDGE CAPITAL MANAGEMENT LIMITED,  
LYNXVALE LIMITED,

Inventor(s):

HOLMES Andrew ,  
BRADLEY Donal Donat Conor,  
KRAFT Arno,  
BURN Paul,  
BROWN Adam,  
FRIEND Richard

Patent and Priority Information (Country, Number, Date):

Patent: WO 9203491 A1 19920305

Application: WO 91GB1421 19910822 (PCT/WO GB9101421)

Priority Application: GB 9018698 19900824

Designated States: AT AU BE BR CA CH DE DK ES FI FR GB GR IT JP KR LU NL SE  
SU

Main International Patent Class: C08G-061/02

International Patent Class: C08G-61:12; H01B-01:12; H05B-33:14

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 15430

#### English Abstract

A method is provided for forming in a semiconductive conjugated polymer at least first and second regions having different optical properties. The method comprises: forming a layer of a precursor polymer and

permitting the first region to come into contact with a reactant, such as an acid, and heat while permitting the second region to come into contact with a lower concentration of the reactant. The reactant affects the conversion conditions of the precursor polymer in such a way as to control the optical properties of at least the first region so that the optical properties of the first region are different from those of the second region. The precursor polymer may comprise a poly(arylene-1, 2-ethanediyl) polymer, at least some of the ethane groups of which include a modifier group whose susceptibility to elimination is increased in the presence of the reactant.

French Abstract

On decrit un procede servant a produire dans un polymere semiconducteur conjugue au moins une premiere et une seconde regions possedant des caracteristiques optiques differentes. Le procede consiste a: former une couche d'un polymere precurseur et permettre a la premiere region d'entrer en contact avec un reactant, tel qu'un acide, et de la chaleur, tout en permettant a la seconde region d'entrer en contact avec une concentration inferieure du reactant. Celui-ci affecte les conditions de conversion du polymere precurseur d'une telle maniere qu'il fait varier les caracteristiques optiques de la premiere region au moins, afin que les caracteristiques optiques de la region soient differentes de celles de la seconde region. Le polymere precurseur peut comprendre un polymere poly(arylene-1, 2-ethanediyle), dont au moins quelques uns des groupes ethane comprennent une groupe modifiant dont la susceptibilite a l'elimination est augmentee en presence du reactant.

7/5/21 (Item 7 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00206295

**SEMICONDUCTIVE COPOLYMERS FOR USE IN LUMINESCENT DEVICES**

**COPOLYMERES SEMICONDUCTEURS UTILISES DANS DES DISPOSITIFS LUMINESCENTS**

Patent Applicant/Assignee:

CAMBRIDGE RESEARCH AND INNOVATION LIMITED,  
CAMBRIDGE CAPITAL MANAGEMENT LIMITED,  
LYNXVALE LIMITED,

Inventor(s):

HOLMES Andrew ,  
BRADLEY Donal Donat Conor,  
KRAFT Arno,  
BURN Paul,  
BROWN Adam,  
FRIEND Richard

Patent and Priority Information (Country, Number, Date):

Patent: WO 9203490 A1 19920305  
Application: WO 91GB1420 19910822 (PCT/WO GB9101420)  
Priority Application: GB 9018698 19900824

Designated States: AT AU BE BR CA CH DE DK ES FI FR GB GR IT JP KR LU NL SE  
SU

Main International Patent Class: C08G-061/02

International Patent Class: C08G-61:12; H01B-01:12; H05B-33:14

Publication Language: English

Fulltext Availability:

Detailed Description  
Claims

Fulltext Word Count: 16673

English Abstract

A semiconductive conjugated copolymer comprises at least two chemically different monomer units which, when existing in their individual homopolymer forms, have different semiconductor bandgaps. The proportion of said at least two chemically different monomer units in the copolymer is selected to control the semiconductor bandgap of the copolymer so as to control the optical properties of the copolymer. The copolymer is

formed in a manner enabling it to be laid down as a film without substantially affecting the luminescent characteristics of the copolymer and is stable at operational temperature. The semiconductor bandgap may be spatially modulated so as to increase the quantum efficiency of the copolymer when excited to luminescence, to select the wavelength of radiation emitted during luminescence or to select the refractive index of the copolymer.

French Abstract

Un copolymere semiconducteur conjugue comprend au moins deux unites monomeres chimiquement differentes qui, lorsqu'elles se presentent sous leurs formes homopolymeres individuelles, possedent differentes bandes interdites semiconductrices. La proportion desdites deux unites monomeres chimiquement differentes au minimum dans le copolymere est choisie de maniere a controler la bande interdite semiconductrice du copolymere afin de controler les caracteristiques optiques du copolymere. Celui-ci est forme de maniere a ce qu'il puisse etre place comme un film sans affecter sensiblement les caracteristiques luminescentes du copolymere, et demeure stable a une temperature de fonctionnement. La bande interdite semiconductrice peut etre modulee de maniere spatiale afin d'augmenter le rendement quantique du copolymere lorsqu'il est excite pour produire une luminescence, de choisir la longueur d'onde du rayon emis pendant la luminescence ou de choisir l'indice de refraction du copolymere.

7/5/22 (Item 1 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013851849 \*\*Image available\*\*

WPI Acc No: 2001-336062/200136

CRPX Acc No: N01-242582

Managing financial transactions for applying exchange rate to convert transaction from first currency to second currency has selected exchange rate applied to received transfer between accounts

Patent Assignee: INTUIT INC (INTU-N)

Inventor: HOLMES A D ; HORIGAN L ; LANGSTON J A ; MCMURTRY D ; TREMBLAY S ; TROUNDAY R P

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
CA 2291305	A1	20010427	CA 2291305	A	19991130	200136 B

Priority Applications (No Type Date): US 99428284 A 19991027

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
CA 2291305	A1	E 45	G06F-017/60	

Abstract (Basic): CA 2291305 A1

NOVELTY - A financial transaction which is a transfer between accounts is received, including date and transaction amount in a first currency; accessing a stored number of exchange rate for the first currency (103) with respect to a second currency, each exchange rate corresponds to time period; and selecting one of the stored exchange rates responsive to the date of transfer between accounts (104) and to time periods of the stored exchange rates.

DETAILED DESCRIPTION - The selected exchange rate is applied to the received transfer between accounts, to derive a converted transaction amount in the second currency.

INDEPENDENT CLAIMS are also included for the following:

- (1) A software product for managing financial transactions;
- (2) A user interface for applying exchange rate to financial transactions; and
- (3) A computer program product comprising a computer-usable medium having computer-readable code.

USE - For tracking multiple exchange rates for various transactions occurring over a period of time.



ADVANTAGE - Tracking historical **exchange** rates, transaction reports are generated that accurately display amounts in the users home currency.

DESCRIPTION OF DRAWING(S) - The figure shows a functional block diagram.

Currency rates (103)

Transactions (104)

pp; 45 DwgNo 1/15

Title Terms: MANAGE; FINANCIAL; TRANSACTION; APPLY; **EXCHANGE** ; RATE;  
CONVERT; TRANSACTION; FIRST; CURRENCY; SECOND; CURRENCY; SELECT;  
**EXCHANGE** ; RATE; APPLY; RECEIVE; TRANSFER; ACCOUNT

Derwent Class: T01; T05

International Patent Class (Main): G06F-017/60

File Segment: EPI

7/5/23 (Item 2 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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009352153 \*\*Image available\*\*

WPI Acc No: 1993-045633/199305

Related WPI Acc No: 1991-268802; 1992-294141; 1992-316286; 1993-167802;  
1993-220915; 1993-265865; 1994-169321; 1995-241841

XRPX Acc No: N93-034917

Touch probe for coordinate positioning machine - uses magnetic biassing to tilt stylus for changing and to return it to its rest position when displacing force is removed

Patent Assignee: RENISHAW METROLOGY LTD (RSHW )

Inventor: HAJDUKIEWICZ P; MCMURTRY D ; MCMURTRY D R; DABBS J C; HELLEN G A ; HELLIER P K

Number of Countries: 017 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9301466	A1	19930121	WO 92GB1244	A	19920709	199305 B
EP 548328	A1	19930630	EP 92915027	A	19920709	199326
			WO 92GB1244	A	19920709	
JP 6501776	W	19940224	WO 92GB1244	A	19920709	199413
			JP 93502105	A	19920709	
US 5327657	A	19940712	US 92973747	A	19921109	199427
EP 548328	B1	19961218	EP 92915027	A	19920709	199704
			WO 92GB1244	A	19920709	
DE 69216063	E	19970130	DE 616063	A	19920709	199710
			EP 92915027	A	19920709	
			WO 92GB1244	A	19920709	
JP 3294269	B2	20020624	WO 92GB1244	A	19920709	200243
			JP 93502105	A	19920709	

Priority Applications (No Type Date): GB 9114945 A 19910711; GB 9123853 A 19911109; GB 9124777 A 19911121; GB 9215512 A 19920722

Cited Patents: DE 3811851; EP 243766; EP 304881; EP 406782; EP 426492; GB 2163554

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 9301466 A1 E 21 G01B-007/00

Designated States (National): JP US

Designated States (Regional): AT BE CH DE DK ES FR GB GR IT LU MC NL SE

EP 548328 A1 E 21 G01B-007/00 Based on patent WO 9301466

Designated States (Regional): CH DE FR GB IT LI

JP 6501776 W G01B-007/00 Based on patent WO 9301466

US 5327657 A 20 G01B-005/03

EP 548328 B1 E 11 G01B-007/00 Based on patent WO 9301466

Designated States (Regional): CH DE FR GB IT LI

DE 69216063 E G01B-007/00 Based on patent EP 548328

Based on patent WO 9301466

JP 3294269 B2 7 G01B-007/00 Previous Publ. patent JP 6501776

Abstract (Basic): WO 9301466 A

The probe (10) has a fixed structure (12), a retaining member (16), a stylus (28) and a mechanism for releasably locating the supporting body in a repeatable rest position. The probe is supported by the fixed structure on a movable arm of a coordinate positioning machine and the retaining member is supported on the fixed structure. The stylus has a supporting body with a stem extending from it and a sensing tip at the free end of the stem, while the locating mechanism includes magnetic biasing for biasing the supporting body into the rest position in order to enable stylus **exchange**.

The locating mechanism enables tilting displacement of the supporting body out of the rest position in response to a displacing force on the stylus and return of the supporting body to the rest position under the influence of the magnetic biasing when the displacing force is removed.

ADVANTAGE - Enables changing of the stylus on a probe in which one or more styli are magnetically retained.

Dwg.1/8

Title Terms: TOUCH; PROBE; COORDINATE; POSITION; MACHINE; MAGNETIC; BIAS;

TILT; STYLUS; CHANGE; RETURN; REST; POSITION; DISPLACE; FORCE; REMOVE

Derwent Class: P56; S02; X25

International Patent Class (Main): G01B-005/03; G01B-007/00

International Patent Class (Additional): G01B-003/00; G01B-005/00;

G01B-005/20; G01B-021/00

File Segment: EPI; EngPI

File 347:JAPIO Oct 1976-2002/Jun(Updated 021004)  
(c) 2002 JPO & JAPIO  
File 350:Derwent WPIX 1963-2002/UD,UM &UP=200265  
(c) 2002 Thomson Derwent

Set	Items	Description
S1	776855	TIMING? OR ((TIME OR MINUTE OR MINUTES OR HOUR OR HOURS) AND (DAY OR DAYS OR DATE OR DATES OR WEEK OR WEEKS OR MONTH OR MONTHS OR YEAR OR YEARS)) OR HISTORICAL OR PAST OR EARLIER OR PREVIOUS? OR PRIOR OR ANCIENT OR OLD OR OLDER
S2	99756	DATA() (BASE? OR BANK? ? OR SYSTEM? OR NETWORK?) OR DATABASE OR DATABANK OR OODB OR DBMS OR RDBMS OR MAPPER OR REPOSITOR? OR ARCHIV?
S3	3247245	EXCHANGE OR CONVERT? OR CONVERSION OR CHANGE? OR TRANSFORM? OR MODIF? OR TABULAT? OR BALANC? OR REBALANC? OR CONFIGUR? OR CALCULAT? OR RECONFIGUR? OR RECALCULAT?
S4	2188850	RATE OR RATES OR RATING OR RATIO OR RATIOS OR PROPORTION? - OR PERCENTAG? OR LEVEL? ?
S5	120	S1 AND S2 AND (S3(2N)S4)
S6	22	(S1(10N) (S3(2N)S4)) (S)S2
S7	861802	MONEY OR MONIES OR FUNDS OR DOLLARS OR STERLING OR DEUTSCH-MARKS OR YEN FRANKS OR CURRENC? OR CASH OR E()CASH OR LEGAL() - TENDER OR BILLS OR AMOUNT? OR MONETARY OR PECUNIARY OR FINANCIAL?
S8	38	S2 AND ((S3(5N)S7) (3N)S4) NOT S6

6/5/1 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
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07156134 \*\*Image available\*\*  
SALES INFORMATION CONTROL SYSTEM

PUB. NO.: 2002-024515 [JP 2002024515 A]  
PUBLISHED: January 25, 2002 (20020125)  
INVENTOR(s): NISHIZAKA KEIICHI  
APPLICANT(s): OMRON CORP  
APPL. NO.: 2000-209736 [JP 2000209736]  
FILED: July 11, 2000 (20000711)  
INTL CLASS: G06F-017/60; G07G-001/12

#### ABSTRACT

PROBLEM TO BE SOLVED: To provide a sales information control system for inputting the sales information of each country with local currency and allowing a user to obtain necessary sales information in a short time.

SOLUTION: Sales information is received with local currency from overseas business base points 2a, 2b, ..., and the local currency is converted into pivotal currency (Japanese yen) by a converting part 12. The conversion is executed according to a **previously stored exchange rate**. Then, a multi-dimensional data bas processing part 18 executes the accumulation processing of each axis according to plural retrieval axes by using daily sales information with the pivotal currency, and prepares and holds a multi-dimensional **data base**. A server application 16 performs access to the multi-dimensional **data base** and a currency rate master 17, and returns the pivotal currency to the local currency, or converts the local currency into the pivotal currency again at the same exchange rate for the sales information with the local currency in the fixed period when the pivotal currency is returned to the local currency, and acquires transition information which is not affected by any **exchange rate**. Then, the necessary data are extracted from the **previously prepared data** and outputted in response to a request from a user.

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6/5/2 (Item 2 from file: 347)  
DIALOG(R)File 347:JAPIO  
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07120302 \*\*Image available\*\*  
ERROR RATE EVALUATING SYSTEM USING DIGITAL VIDEO CAMERA

PUB. NO.: 2001-347970 [JP 2001347970 A]  
PUBLISHED: December 18, 2001 (20011218)  
INVENTOR(s): TAKANO TORU  
APPLICANT(s): TAKANO TORU  
APPL. NO.: 2000-205820 [JP 2000205820]  
FILED: June 05, 2000 (20000605)  
INTL CLASS: B62D-041/00; B60R-021/00; G06F-017/60; G06T-001/00;  
H04N-005/915; H04N-007/18

#### ABSTRACT

PROBLEM TO BE SOLVED: To provide information accurately recording progress leading to an accident and not relying on human memory which is indistinct or at variance with facts, and to accurately collate it with past error rate precedents in a short time.

SOLUTION: Accident form analysis data 201 is prepared on the basis of picture image information of the accident recorded by a digital video camera, and this data is collated by use of a computer 5 with a **database** 9 of **past culpa rate precedents converted into data** for performing

error rate evaluation.

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6/5/3 (Item 3 from file: 347)  
DIALOG(R)File 347:JAPIO  
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07097359 \*\*Image available\*\*  
METHOD FOR CALCULATING REAL-TIMES SATISFACTION RATIO ON DELIVERY DATE  
REQUESTED BY SALES

PUB. NO.: 2001-325015 [JP 2001325015 A]  
PUBLISHED: November 22, 2001 (20011122)  
INVENTOR(s): MUROI TSUTOMU  
APPLICANT(s): NEC CORP  
APPL. NO.: 2000-145426 [JP 2000145426]  
FILED: May 17, 2000 (20000517)  
INTL CLASS: G05B-019/418; G06F-017/60

#### ABSTRACT

PROBLEM TO BE SOLVED: To provide a method for calculating on real-time the satisfaction ratio on delivery sales-requested date capable of confirming a delivery date satisfaction ratio in a real time.

SOLUTION: A sales staff calculates a date of delivery by a date of delivery answer calculation logic from a requested date of delivery and a possible delivery date to merchandise obtained, by summing up orders inputted from a user to an order receiving terminal 20 according to the business with the user, and transmits the date of delivery answer information to the order receiving terminal 20. This date of delivery answer information is held in a date of delivery answer data base 60, and the tight situation of the merchandise is calculated from the date of delivery answer information by a delivery date satisfaction ratio calculating tool 702, and carried in a delivery date satisfaction ratio web 80 opened over the Internet by a factory. Then, the sales staff performs processing for acquiring materials for the merchandise by confirming the tight situation by a sales terminal 10.

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6/5/4 (Item 4 from file: 347)  
DIALOG(R)File 347:JAPIO  
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07028784 \*\*Image available\*\*  
SELECTIVE BIDDING SYSTEM

PUB. NO.: 2001-256418 [JP 2001256418 A]  
PUBLISHED: September 21, 2001 (20010921)  
INVENTOR(s): HINO KAZUO  
YASUDA TAKUJI  
SATO FUKUTADA  
YAMAGAMI SHIN  
ISHIZAKA TADASHI  
APPLICANT(s): TOKYO GAS CO LTD  
APPL. NO.: 2000-069758 [JP 200069758]  
FILED: March 14, 2000 (20000314)  
INTL CLASS: G06F-019/00

#### ABSTRACT

PROBLEM TO BE SOLVED: To provide a selective bidding system capable of continuously performing impartial bidding.

SOLUTION: In this selective bidding system in which the host device 10 of a bidding performer 1 side is connected to the communication terminals 31 of bidding candidate 3 sides through a communicating means 5 and the bidding performer 1 bids a plurality of bidders among the bidding candidates 3 to perform competitive bidding, the host device 10 has a database 11 composed of data such as the past business results and the past bidding results of the bidder candidates, a bidding rate calculating means 12 calculating the probabilities that the bidders are designated in each bidding candidate on the basis of the past business results and the past bidding results of the database and a bidder selecting means 13 which has a random number generating function and randomly selects a bidder among the bidding candidates on the basis of the bidding rates, randomly selects a bidder among the bidding candidates on the basis of the bidding rates to designate the bidder as a bidder when an order item 20 is brought about and notifies the bidder through the means 5 (1).

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6/5/5 (Item 5 from file: 347)  
DIALOG(R)File 347:JAPIO  
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05904887 \*\*Image available\*\*  
IMAGE COLLATING DEVICE

PUB. NO.: 10-187987 [JP 10187987 A]  
PUBLISHED: July 21, 1998 (19980721)  
INVENTOR(s): NAKAYAMA AKIHITO  
APPLICANT(s): SONY CORP [000218] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 08-356827 [JP 96356827]  
FILED: December 26, 1996 (19961226)  
INTL CLASS: [6] G06T-007/00  
JAPIO CLASS: 45.9 (INFORMATION PROCESSING -- Other)  
JAPIO KEYWORD: R098 (ELECTRONIC MATERIALS -- Charge Transfer Elements, CCD &  
BBD); R116 (ELECTRONIC MATERIALS -- Light Emitting Diodes,  
LED); R131 (INFORMATION PROCESSING -- Microcomputers &  
Microprocessors)

#### ABSTRACT

PROBLEM TO BE SOLVED: To avoid the degradation of collation accuracy by storing information at the time of discrimination for each corresponding registered image when it is discriminated the image of inspection object is coincident with the registered image, and performing the re-registration or the like of registered image based on this information at the time of discrimination.

SOLUTION: When plural collation rates are detected corresponding to respective angles of the erected image and rotated image and threshold values, it is detected whether the collation rate is more than a fixed value or not in all the frames respectively switched concerning the erected image and the rotated image. After coincidence is discriminated and the discriminated result of coincidence is outputted, the collation rate at this time is recorded in a fingerprint data base 5 as the information at the time of discrimination. Further, the change of collation rate in the past recorded in the fingerprint data base 5 is continuously confirmed and when the collation rate is lowered, the update of registered fingerprint data is called. The collation rate is recorded in the fingerprint data base 5 as the information at the time of discrimination together with the image of fingerprint and with this record of collation rate as a reference, the update of fingerprint data base 5 is called.

6/5/6 (Item 6 from file: 347)

DIALOG(R)File 347:JAPIO  
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. 05904884     \*\*Image available\*\*  
IMAGE COLLATING DEVICE

PUB. NO.:        10-187984    [JP 10187984 A]  
PUBLISHED:      July 21, 1998 (19980721)  
INVENTOR(s):    NAKAYAMA AKIHITO  
APPLICANT(s):   SONY CORP [000218] (A Japanese Company or Corporation), JP  
                  (Japan)  
APPL. NO.:      08-356824    [JP 96356824]  
FILED:          December 26, 1996 (19961226)  
INTL CLASS:     [6] G06T-007/00  
JAPIO CLASS:    45.9 (INFORMATION PROCESSING -- Other)  
JAPIO KEYWORD: R098 (ELECTRONIC MATERIALS -- Charge Transfer Elements, CCD &  
                  BBD); R116 (ELECTRONIC MATERIALS -- Light Emitting Diodes,  
                  LED); R131 (INFORMATION PROCESSING -- Microcomputers &  
                  Microprocessors)

#### ABSTRACT

PROBLEM TO BE SOLVED: To shorten time required for collation by narrowing the image of candidate through rough discrimination and discriminating the coincidence/non- coincidence of image concerning this candidate later.

SOLUTION: When the discrimination of coincidence is held concerning all the candidate images registered in a fingerprint data base 5, a frame to be a reference is moved and when the discrimination of coincidence is held even after the repetition of the same processing, the same person is concerned for the image of candidate related to the hold of discrimination and obvious difference can not be judged, the discrimination reference is reduced. After the discriminated result of coincidence is outputted, a collation rate at such a time is recorded in the fingerprint data base 5. Further, the change of collation rate in the past recorded in the fingerprint data base 5 is continuously confirmed and when the reduction rate is lowered, the update of registered fingerprint data is called. Then, the coincidence or non-coincidence with the fingerprint image registered in the fingerprint data base 5 is roughly discriminated and after the image of processing object is narrowed, the fingerprint is collated with this image of candidate.

6/5/7        (Item 7 from file: 347)  
DIALOG(R)File 347:JAPIO  
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05904882     \*\*Image available\*\*  
IMAGE COLLATING DEVICE

PUB. NO.:        10-187982    [JP 10187982 A]  
PUBLISHED:      July 21, 1998 (19980721)  
INVENTOR(s):    NAKAYAMA AKIHITO  
APPLICANT(s):   SONY CORP [000218] (A Japanese Company or Corporation), JP  
                  (Japan)  
APPL. NO.:      08-356822    [JP 96356822]  
FILED:          December 26, 1996 (19961226)  
INTL CLASS:     [6] G06T-007/00  
JAPIO CLASS:    45.9 (INFORMATION PROCESSING -- Other)  
JAPIO KEYWORD: R098 (ELECTRONIC MATERIALS -- Charge Transfer Elements, CCD &  
                  BBD); R116 (ELECTRONIC MATERIALS -- Light Emitting Diodes,  
                  LED); R131 (INFORMATION PROCESSING -- Microcomputers &  
                  Microprocessors)

#### ABSTRACT

PROBLEM TO BE SOLVED: To obtain high reliability with simple configuration by outputting the result of discrimination with an input image belonging to

one discrimination object only when at least two or more pieces of coincidence discrimination are obtained with respect to plural registered images.

SOLUTION: Only when the result of coincidence is obtained successively with respect to three pieces of fingerprint data D11-D13 by successively and repeatedly executing collation for every fingerprint data D11-D13 according to the order of collation registered in a fingerprint **database**, the discriminated result of coincidence is outputted. Namely, when the order of collation is not coincident, the fingerprints are collated with respect to different fingers. Also, even when the finger is coincident with the fingerprint, such processing is repeated three times. Then, when the discriminated result of coincidence is outputted, the collation rate at such a time is recorded in the fingerprint **database**. Further, the **change** of collation **rate** in the **past** recorded in the fingerprint **database** is confirmed and when the collation rate is lowered, the update of registered fingerprint data is urged. Besides, when the discrimination of coincidence is held in the collation of respective fingers, a frame to be a reference is moved.

6/5/8 (Item 8 from file: 347)  
DIALOG(R)File 347:JAPIO  
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05665044 \*\*Image available\*\*  
WORKING COST CALCULATING METHOD

PUB. NO.: 09-279844 [JP 9279844 A]  
PUBLISHED: October 28, 1997 (19971028)  
INVENTOR(s): HATORI FUMIO  
APPLICANT(s): HITACHI PLANT ENG & CONSTR CO LTD [327612] (A Japanese  
Company or Corporation), JP (Japan)  
APPL. NO.: 08-119756 [JP 96119756]  
FILED: April 16, 1996 (19960416)  
INTL CLASS: [6] E04G-021/00; G06F-017/60  
JAPIO CLASS: 27.2 (CONSTRUCTION -- Building); 45.4 (INFORMATION PROCESSING  
-- Computer Applications)  
JAPIO KEYWORD:R007 (ULTRASONIC WAVES)

#### ABSTRACT

PROBLEM TO BE SOLVED: To make it possible to estimate accurately and rationally by selecting a pattern coinciding with a configuration ratio of new work and reading a cost calculating function and by inputting cost influencing factors to this function and calculating the cost.

SOLUTION: Work in the **past** is divided, patterns are classified based on the work **configuration ratio** from work **configuration ratio** data determining the proportion of each work step divided, working cost data and cost influence factor data, and the cost calculating function of each pattern is stored in a storage 24 as **data base**. A processing section 20 determines the configuration ratio of the work estimating the cost by work sampling method, and detects the pattern of the configuration ratio, determines the pattern coinciding with the pattern of the work configuration ratio detected by statistic analysis, and the cost calculating function at that pattern is read out from the **data base**. The cost of new work is calculated by inputting the influence factor conditions for the function from the input section 22.

6/5/9 (Item 9 from file: 347)  
DIALOG(R)File 347:JAPIO  
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05338499 \*\*Image available\*\*  
PICTURE PROCESSOR



PUB. NO.: 08-293999 [JP 8293999 A]  
PUBLISHED: November 05, 1996 (19961105)  
INVENTOR(s): MINAMINO KATSUMI  
APPLICANT(s): MURATA MACH LTD [330342] (A Japanese Company or Corporation),  
JP (Japan)  
APPL. NO.: 07-094003 [JP 9594003]  
FILED: April 19, 1995 (19950419)  
INTL CLASS: [6] H04N-001/387; G06T-003/40; H04N-001/393; H04N-001/409  
JAPIO CLASS: 29.4 (PRECISION INSTRUMENTS -- Business Machines); 44.7  
(COMMUNICATION -- Facsimile); 45.9 (INFORMATION PROCESSING --  
Other)  
JAPIO KEYWORD: R131 (INFORMATION PROCESSING -- Microcomputers &  
Microprocessors)

#### ABSTRACT

PURPOSE: To provide a picture processor for inhibiting the omission of thin lines or the like at the time of reduction processing of picture data and inhibiting the degradation of the picture quality of reduced pictures.

CONSTITUTION: A CPU 1 performs the high resolution conversion of the picture data of line data extended in the horizontal scanning direction and vertical pixel data extended in the vertical scanning direction corresponding to a program inside a ROM 2. Then, the CPU 1 thins out one of the same continuous data among the pixel data of the line data and the vertical pixel data based on the output of clock signals S1 and S2 from a thinning-out clock generation circuit 10. Then, low resolution conversion is performed. The ratio of conversion at the time is the reverse of the previously performed high resolution conversion.

6/5/10 (Item 10 from file: 347)  
DIALOG(R) File 347:JAPIO  
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05197874 \*\*Image available\*\*  
MAGNETIC READER

PUB. NO.: 08-153374 [JP 8153374 A]  
PUBLISHED: June 11, 1996 (19960611)  
INVENTOR(s): ISHII HIRONORI  
APPLICANT(s): TEC CORP [000356] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 06-295272 [JP 94295272]  
FILED: November 29, 1994 (19941129)  
INTL CLASS: [6] G11B-020/10; G11B-005/09; G11B-005/80; G11B-020/18  
JAPIO CLASS: 42.5 (ELECTRONICS -- Equipment); 45.3 (INFORMATION PROCESSING  
-- Input Output Units)

#### ABSTRACT

PURPOSE: To enhance reading processing efficiency and reliability by improving a reading rate.

CONSTITUTION: A basic clock and prescribed information written based on the presence of bit inversion between the clocks are read out of a magnetic stripe of a magnetic medium provided with this magnetic stripe. The device is provided with a read head 13 for reading the information written in the magnetic stripe of the magnetic medium and a modem circuit 41 for detecting whether a bit of data from this read head is inverted or not in timing at a point of time when the read clock is changed in level and demodulating the data based on the result of this detection. At the time of demodulating the data, whether a bit of the data from the read head is inverted or not is detected, and when a read error takes place, the read clock level changing point of time of the modem circuit 41 is altered, and then the reading is performed again.

6/5/11 (Item 11 from file: 347)  
DIALOG(R)File 347:JAPIO  
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04225193 \*\*Image available\*\*  
YIELD PREDICTION SYSTEM FOR INPUT MANAGEMENT SYSTEM

PUB. NO.: 05-216893 [JP 5216893 A]  
PUBLISHED: August 27, 1993 (19930827)  
INVENTOR(s): MORIYA HIDEKO  
APPLICANT(s): NEC CORP [000423] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 03-354018 [JP 91354018]  
FILED: December 19, 1991 (19911219)  
INTL CLASS: [5] G06F-015/21; G06F-015/20  
JAPIO CLASS: 45.4 (INFORMATION PROCESSING -- Computer Applications)  
JOURNAL: Section: P, Section No. 1655, Vol. 17, No. 662, Pg. 71,  
December 07, 1993 (19931207)

#### ABSTRACT

PURPOSE: To reduce wasteful man-hours and members by calculating the change rate of a yield for each day from a yield calculation result by day and calculating and outputting an expected value for the yield from the calculation result.

CONSTITUTION: Information is stored in a yield result database 2 of an information management host computer 1 via a communication line 5 by means of the process faulty process report from an input/output terminal 4. Data stored in the yield result database 2 are summed for each day, and the change rate of them is calculated and stored in the yield result database 3 by day. Upon the input number output request from the input/output terminal 4, an appropriate input number is calculated from predicted yield calculated based on the change rate and outputted to a terminal screen. Thus, in the yield prediction system of input management system configured such a way, since the input number can be quickly adjusted corresponding to the yield because of changing conventional actual result management system to the prediction management system, the man-hours for re-inputting shortage and the occurrence of excessive articles can be minimized.

6/5/12 (Item 12 from file: 347)  
DIALOG(R)File 347:JAPIO  
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02755607 \*\*Image available\*\*  
DISPLAY DEVICE FOR TOOL MOVING LOCUS OF NUMERICAL CONTROLLER

PUB. NO.: 01-053207 [JP 1053207 A]  
PUBLISHED: March 01, 1989 (19890301)  
INVENTOR(s): SEKIKAWA KATSUhide  
APPLICANT(s): MITSUBISHI ELECTRIC CORP [000601] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 62-285505 [JP 87285505]  
FILED: November 13, 1987 (19871113)  
INTL CLASS: [4] G05B-019/405  
JAPIO CLASS: 22.3 (MACHINERY -- Control & Regulation)  
JAPIO KEYWORD: R063 (MACHINERY -- Numerical Control Machine Tools, NC)  
JOURNAL: Section: P, Section No. 884, Vol. 13, No. 256, Pg. 43, June  
14, 1989 (19890614)

#### ABSTRACT

PURPOSE: To easily identify the present moving locus of a new tool based on a past tool moving locus by changing the luminance level of the display data for each prescribed timing via a luminance level control means and displaying the display data according to said luminance level via a display means.

CONSTITUTION: A display data memory means 33 stores the display data corresponding to the moving locus of a tool and the luminance level memory means 43a-43c store the luminance levels of the display data. A luminance control means 42 changes the luminance level for each prescribed timing and a display means 41 displays the display data according to the luminance level. These means form a display device for tool moving loci that is used by a numerical controller. In other words, the means 33 and 43a-43c store the display data and the luminance levels respectively together with the means 42 which changes the luminance level of the display data for each prescribed timing, and the means 41 which displays the display data based on luminance levels. Thus it is possible to easily identify the present new tool path from a past tool path while it is possible to read the movement of the past tool path.

6/5/13 (Item 13 from file: 347)  
DIALOG(R)File 347:JAPIO  
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02633859 \*\*Image available\*\*  
INTEGRATED CIRCUIT DEVICE

PUB. NO.: 63-250759 [JP 63250759 A]  
PUBLISHED: October 18, 1988 (19881018)  
INVENTOR(s): KASE KIYOSHI  
APPLICANT(s): NIPPON MOTOROLA KK [489085] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 62-084525 [JP 8784525]  
FILED: April 08, 1987 (19870408)  
INTL CLASS: [4] G06F-013/38  
JAPIO CLASS: 45.2 (INFORMATION PROCESSING -- Memory Units); 42.2 (ELECTRONICS -- Solid State Components)  
JOURNAL: Section: P, Section No. 827, Vol. 13, No. 64, Pg. 47, February 14, 1989 (19890214)

#### ABSTRACT

PURPOSE: To omit an exclusive IC in each IF mode and to use an IC in common by deciding an interface (IF) mode of transfer data based on the existence of a logical signal level change on a chip specifying terminal prior to the data transfer.

CONSTITUTION: In an IIC bus mode, serial data SDA is changed from '1' to '0' at clock terminals SCL=1. Consequently, the output IICSTART\* of an FFU 1 is turned to '0', a data entry command loading signal is turned to '1', and transfer start is detected. When the signal SCL is turned to '0', an FFU 3 is triggered both signals ENST, LOAD are turned to '0' and data transfer is executed. When a chip enable CE\* is decayed at SCL=1 and SDA=1 in case of an SPI mode, the output mode of the FFU 2 is turned to '1'. At NOT output QB=0, the terminal D of the FFU is turned to '1'. When the signal SCL is decayed, the NOT output of ENST of the FFU 3 is turned to '0' and LOAD is turned to '0' and data transfer is executed

6/5/14 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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014412228 \*\*Image available\*\*  
WPI Acc No: 2002-232931/200229  
XRPX Acc No: N02-179316

Golf club selling system has database storing information about user purchasing golf club, the club name and purchasing price, which is searched based on specific conditions for calculating acquisition ratio  
Patent Assignee: GOLF PARTNER KK (GOLF-N)  
Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2002049672	A	20020215	JP 2000238436	A	20000807	200229 B

Priority Applications (No Type Date): JP 2000238436 A 20000807

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2002049672	A		8 G06F-017/60	

Abstract (Basic): JP 2002049672 A

NOVELTY - A terminal equipment in a shop, is connected to a host computer through a communication circuit. The information about user purchasing a golf club, the club name and the purchasing price are stored in a **database**. The **database** is searched depending on the time interval between the golf club acquisition application submission **date** and purchasing **date**, and an acquisition **ratio** is **calculated**.

USE - For selling golf clubs.

ADVANTAGE - The golf clubs are sold easily and effectively.

DESCRIPTION OF DRAWING(S) - The figure shows a flowchart explaining operation of golf club selling system. (Drawing includes non-English language text).

pp; 8 DwgNo 3/3

Title Terms: GOLF; CLUB; SELL; SYSTEM; DATABASE; STORAGE; INFORMATION; USER ; PURCHASE; GOLF; CLUB; CLUB; NAME; PURCHASE; PRICE; SEARCH; BASED; SPECIFIC; CONDITION; CALCULATE; ACQUIRE; RATIO

Derwent Class: T01

International Patent Class (Main): G06F-017/60

File Segment: EPI

6/5/15 (Item 2 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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014275679 \*\*Image available\*\*

WPI Acc No: 2002-096381/200213

Related WPI Acc No: 2002-453195

XRPX Acc No: N02-071141

Computer implemented dynamic duration burn-in method for ICs, involves stressing and testing ICs, to determine instantaneous failure rate which is compared with test criteria until failure rate fulfills test criteria

Patent Assignee: MICRON TECHNOLOGY INC (MICR-N)

Inventor: BOYINGTON R; ROGERS D

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6175812	B1	20010116	US 9831411	A	19980226	200213 B

Priority Applications (No Type Date): US 9831411 A 19980226

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6175812	B1		9 G06F-019/00	

Abstract (Basic): US 6175812 B1

NOVELTY - Computer system with storage has performance database to track burn-in results of ICs. Test criteria against which burn-in test results are compared, is determined. ICs are stressed for burn-in interval, and are tested to determine instantaneous failure rate which is compared to test criteria, which are repeated until failure rate fulfills test criteria, based on which burn-in interval is dynamically stopped.

DETAILED DESCRIPTION - Testing includes calculating failure rate of the ICs as a function of the performance data. Stressing includes adjusting the burn-in interval as a function of the performance database.

INDEPENDENT CLAIMS are also included for:

- (a) Computer program product;
- (b) Dynamic duration burn-in device;
- (c) Dynamic duration stress testing device

USE - For burn-in testing of integrated circuit such as SRAM, DRAM.

ADVANTAGE - Enables performing efficient burn-in testing of the IC. The failure rate calculation considers statistical analysis of past performance data extracted from the performance database. Such analysis enables the burn-in testing to be dynamically fine-tuned as the database grows. This process allows the burn-in cycle to become more reliable through time.

DESCRIPTION OF DRAWING(S) - The figure shows a flowchart of method of dynamic duration burn-in.

pp; 9 DwgNo 2/4

Title Terms: COMPUTER; IMPLEMENT; DYNAMIC; DURATION; BURN; METHOD; STRESS; TEST; DETERMINE; INSTANT; FAIL; RATE; COMPARE; TEST; CRITERIA; FAIL; RATE ; TEST; CRITERIA

Derwent Class: S01; T01; U11; U14

International Patent Class (Main): G06F-019/00

File Segment: EPI

6/5/16 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014274019 \*\*Image available\*\*

WPI Acc No: 2002-094721/200213

XRPX Acc No: N02-070265

Operational risk measurement system for enterprise, calculates operational risk, by estimating loss of money in business by applying calculated accident incidence rate to all transactions stored in database

Patent Assignee: SAKURA GINKO KK (SAKU-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2001338124	A	20011207	JP 2000156638	A	20000526	200213 B

Priority Applications (No Type Date): JP 2000156638 A 20000526

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2001338124	A		11	G06F-017/60	

Abstract (Basic): JP 2001338124 A

NOVELTY - A rate calculator (14) calculates the accident incidence rate according to the occurrence of previous accidents which are stored in a database (11). A transaction money database (13) stores present transaction money for each transaction. An operational risk calculator (17) outputs the operational risk by estimating loss of money in business by applying accident incidence rate to all stored transactions.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (a) Computer software program storing medium;
- (b) operational risk measurement method

USE - For calculating loss of money and risk in business transaction performed in enterprises.

ADVANTAGE - Enables to perform reliable measurement of risk. Enables to measure office risk and system risk which have different characteristic from service risk.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of operational risk measurement system. (Drawing includes non-English language text).

Databases (11,13)

Calculators (14,17)

pp; 11 DwgNo 1/9  
Title Terms: OPERATE; RISK; MEASURE; SYSTEM; CALCULATE; OPERATE; RISK;  
ESTIMATE; LOSS; MONEY; BUSINESS; APPLY; CALCULATE; ACCIDENT; INCIDENCE;  
RATE; TRANSACTION; STORAGE; DATABASE  
Derwent Class: T01  
International Patent Class (Main): G06F-017/60  
International Patent Class (Additional): G06F-019/00  
File Segment: EPI

6/5/17 (Item 4 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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012888127 \*\*Image available\*\*  
WPI Acc No: 2000-059961/200005  
XRPX Acc No: N00-047186

Data encoder for image data recorded in e.g. magneto-optical disc,  
magnetic tape - has encoding unit that processes image data and computed  
activity vector to become amount of symbol generation obtained by  
assigning symbol of activity vector to symbol of image data

Patent Assignee: SONY CORP (SONY )  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 11317951	A	19991116	JP 98121532	A	19980430	200005 B

Priority Applications (No Type Date): JP 98121532 A 19980430

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 11317951	A	22	H04N-007/32	

Abstract (Basic): JP 11317951 A

NOVELTY - The data encoder (1) has an encoding unit (5) that  
processes image data and computed activity vector to become the amount  
of symbol generation obtained by assigning the symbol amount of the  
activity vector to the symbol amount of the image data. The activity  
vector shows the activity of the image data part which is reduced based  
on the reduced number of pixels of the image data. DETAILED DESCRIPTION  
- The data encoder has a scene change detector that determines a scene  
change in the input image data based on the computed inter-frame  
difference of two adjacent image data. A characteristic calculating  
unit computes the characteristic amount of the image data. A pixel  
number converter (2) reduces the pixel number of the image data by a  
predetermined conversion ratio in predetermined timing based on  
the output of the scene change detector when the computed  
characteristic amount exceeds a predetermined threshold value.  
INDEPENDENT CLAIMS are also included for the following: the data  
encoding procedure; and the data transmission procedure.

USE - For image data recorded in e.g. magneto-optical disc,  
magnetic tape.

ADVANTAGE - Prevents degradation on image quality of  
high-resolution image data caused by change in a frame since encoding  
data can be released with scene change in associated timing.

DESCRIPTION OF DRAWING(S) - The figure shows the component block  
diagram of the data encoder. (1) Data encoder; (2) Pixel number  
converter; (5) Encoding unit.

Dwg.1/19

Title Terms: DATA; ENCODE; IMAGE; DATA; RECORD; MAGNETO-OPTICAL; DISC;  
MAGNETIC; TAPE; ENCODE; UNIT; PROCESS; IMAGE; DATA; COMPUTATION; ACTIVE;  
VECTOR; AMOUNT; SYMBOL; GENERATE; OBTAIN; ASSIGN; SYMBOL; ACTIVE; VECTOR;  
SYMBOL; IMAGE; DATA

Derwent Class: W02  
International Patent Class (Main): H04N-007/32  
International Patent Class (Additional): H04N-011/04; H04N-017/02  
File Segment: EPI

6/5/18 (Item 5 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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012856875 \*\*Image available\*\*  
WPI Acc No: 2000-028708/200003  
XRPX Acc No: N00-021732

Performance information evaluation apparatus for electronic musical instrument - has evaluation unit which analyzes objective performed data opposing to standard performance data based on evaluation value corresponding to calculated ratio of sound-emission timing data

Patent Assignee: YAMAHA CORP (NIHG )  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 11296168	A	19991029	JP 9895722	A	19980408	200003 B

Priority Applications (No Type Date): JP 9895722 A 19980408

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 11296168	A		12	G10H-001/00	

Abstract (Basic): JP 11296168 A

NOVELTY - An extraction unit obtains the sound-emission timing data of a certain total sound corresponding to the supplied standard performance data and objective performed data. A calculation circuit computes the ratio of the extracted sound-emission timing data as an evaluation value. An evaluation unit analyzes the performed data opposing to the standard performance data based on the evaluation value. DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following: a performance information evaluation procedure; and a recording medium.

USE - For electronic musical instrument.

ADVANTAGE - Gap of player's performance timing can be measured correctly even when performing music at player's free tempo.  
DESCRIPTION OF DRAWING(S) - The figure shows the hardware component block diagram of an electronic musical instrument combined with a performance information evaluation apparatus and automatic performance apparatus.

Dwg.2/9

Title Terms: PERFORMANCE; INFORMATION; EVALUATE; APPARATUS; ELECTRONIC; MUSIC; INSTRUMENT; EVALUATE; UNIT; OBJECTIVE; PERFORMANCE; DATA; OPPOSED; STANDARD; PERFORMANCE; DATA; BASED; EVALUATE; VALUE; CORRESPOND; CALCULATE; RATIO; SOUND; EMIT; TIME; DATA

Derwent Class: P86; W04

International Patent Class (Main): G10H-001/00

File Segment: EPI; EngPI

6/5/19 (Item 6 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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012289264 \*\*Image available\*\*  
WPI Acc No: 1999-095370/199908  
XRPX Acc No: N99-069318

Optimisation system of digital subscriber line performance - has receiving modem to set data rate and request power decrease or power increase respectively if signal/noise ratio is above or below set level

Patent Assignee: PARADYNE CORP (PDYN )  
Inventor: BREMER G; MATTHEWS C  
Number of Countries: 020 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
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WO 9859426 A1 19981230 WO 98US13475 A 19980623 199908 B

Priority Applications (No Type Date): US 98102176 A 19980622; US 9750564 P 19970623

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 9859426 A1 E 30 H04B-001/38

Designated States (National): CA JP

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Abstract (Basic): WO 9859426 A

A transmitting modem (12) comprises a central processor unit (22) in communication with a modulator (18), a communication port (24) and a memory (26) and the memory holds software control programme (27) and a database (29). A maximum data rate is negotiated between transmitting and receiving modems (12,14), e.g. by modem (14) maintaining a table of possible data rates in a database (33), 1 of which is retrieved by a control programme (31) and transmitted to the transmitting modem as part of an initialisation procedure. Similarly, the control programme in the transmitting modem could select a data rate from a table in the database (29) for transmission to the receiving modem.

A power measuring component (32) calculates the noise power spectral density, subtracted from the noise plus signal to compute the net signal/noise ratio. The receiving modem then determines whether the **previously calculated signal/noise ratio** will support the data rate originally selected. The control programme (31) computes the signal/noise ratio with the minimum request rate retrieval from the **database** (33) and the receiving modem requests power decrease if the minimum ratio is exceeded by more than a specified margin. If the ratio is below the minimum required value, the receiving modem requests power increase.

USE - Optimisation of digital subscriber lines performing as measured by such factors as throughput, power consumption and loop length

ADVANTAGE - Reduced performance variance between individual communication sessions

Dwg.2/5

Title Terms: OPTIMUM; SYSTEM; DIGITAL; SUBSCRIBER; LINE; PERFORMANCE; RECEIVE; MODEM; SET; DATA; RATE; REQUEST; POWER; DECREASE; POWER; INCREASE; RESPECTIVE; SIGNAL; NOISE; RATIO; ABOVE; BELOW; SET; LEVEL

Derwent Class: W01

International Patent Class (Main): H04B-001/38

International Patent Class (Additional): H04L-005/16

File Segment: EPI

6/5/20 (Item 7 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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011915666 \*\*Image available\*\*

WPI Acc No: 1998-332576/199829

XRPX Acc No: N98-259596

**Automatic defects amount predicting method used during manufacturing of new electronic assembly on production line - involves using quality forecasting engine to import enumerated bill of material and defect rate stored in historical database to calculate predicted number of defects**

Patent Assignee: MOTOROLA INC (MOTI )

Inventor: MULLEN W B; POTTER S G; URBISH G F

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5761093	A	19980602	US 97854130	A	19970508	199829 B

Priority Applications (No Type Date): US 97854130 A 19970508



Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5761093	A		7	G06F-017/60	

Abstract (Basic): US 5761093 A

The method involves counting defective component as they are manufactured on an assembly line (210). The counted defects are then stored in a historical database (220) and the defect rate is calculated .

A bill of material for the new electronic design (230) is then enumerated and information associated with each component is extracted from a library database (240) into a quality forecasting engine (250). The engine imports the enumerated bill of material and the stored defect rate from the historical database to calculate predicted number of defects for the electronic assembly using the extracted library information.

ADVANTAGE - Reduces overall product development time. Improves manufacturing quality of product.

Dwg.3/3

Title Terms: AUTOMATIC; DEFECT; AMOUNT; PREDICT; METHOD; MANUFACTURE; NEW; ELECTRONIC; ASSEMBLE; PRODUCE; LINE; QUALITY; FORECAST; ENGINE; BILL; MATERIAL; DEFECT; RATE; STORAGE; HISTORY; DATABASE; CALCULATE; PREDICT; NUMBER; DEFECT

Derwent Class: T01

International Patent Class (Main): G06F-017/60

File Segment: EPI

6/5/21 (Item 8 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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011031588 \*\*Image available\*\*

WPI Acc No: 1997-009512/199701

XRFX Acc No: N97-008710

Phase locked loop frequency setting appts. for integrated circuit - has microprocessor which outputs strobe signal on phase locked loop frequency synthesiser when reaching switching timing of PLL frequency synthesiser

Patent Assignee: TOKYO ELECTRIC CO LTD (TODK )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 8279749	A	19961022	JP 9580510	A	19950405	199701 B

Priority Applications (No Type Date): JP 9580510 A 19950405

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 8279749	A		11	H03L-007/183	

Abstract (Basic): JP 8279749 A

The appts. has a memory which stores a previous division ratio data based on a phase locked loop frequency synthesiser output frequency. A parallel-serial converter changes the parallel division ratio data into a serial division ratio data. A transmission starting signal is output by a data latch within a predetermined timing corresp. to the division ratio data. The converter receives the division ratio data from the data latch through the transmission starting signal. The serial division data is output on the PLL synthesiser synchronised with a shift clock. A shift clock generator supplies the shift clock until all the division ratio data bits are output to the converter.

A clock signal synchronised with the division ratio data, is output on the PLL synthesiser. A microprocessor (MPU) outputs the transmission starting signal earlier than the required time in outputting all the division ratio data bits. The microprocessor outputs a strobe signal on the PLL synthesiser when the PLL synthesiser switching timing is

reached.

ADVANTAGE - Enables high-speed frequency switching by shortening time in changing frequency of frequency synthesiser.

Dwg.1/11

Title Terms: PHASE; LOCK; LOOP; FREQUENCY; SET; APPARATUS; INTEGRATE;  
CIRCUIT; MICROPROCESSOR; OUTPUT; STROBE; SIGNAL; PHASE; LOCK; LOOP;  
FREQUENCY; SYNTHESISER; REACH; SWITCH; TIME; PLL; FREQUENCY; SYNTHESISER

Derwent Class: U23

International Patent Class (Main): H03L-007/183

International Patent Class (Additional): H04B-001/26

File Segment: EPI

6/5/22 (Item 9 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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010671322 \*\*Image available\*\*

WPI Acc No: 1996-168276/199617

XRPX Acc No: N96-141459

Level measuring device for particulate matter stored within receptacle -  
has display part which displays level value computed by density level  
converter, based on relation existing between density and level

Patent Assignee: MITSUBISHI JUKOGYO KK (MITO )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 8050048	A	19960220	JP 94184633	A	19940805	199617 B

Priority Applications (No Type Date): JP 94184633 A 19940805

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 8050048	A		5 G01F-023/26	

Abstract (Basic): JP 8050048 A

The level measuring device consists of a detector (6) which is embedded within a particulate matter (4) contained in a hopper (3) detects an electrostatic capacitance of the particles. A density signal (8) is obtained from a density measuring unit (7) based on the relation of the electrostatic capacity and density, defined previously. A density level convertor (9) converts the density into level data based on the relation (10) between density and level. This output is displayed on a display part (17).

ADVANTAGE - Measures level continuously and correctly.

Dwg.1/5

Title Terms: LEVEL; MEASURE; DEVICE; PARTICLE; MATTER; STORAGE; RECEPTACLE;  
DISPLAY; PART; DISPLAY; LEVEL; VALUE; COMPUTATION; DENSITY; LEVEL;  
CONVERTER; BASED; RELATED; EXIST; DENSITY; LEVEL

Derwent Class: S02

International Patent Class (Main): G01F-023/26

File Segment: EPI

8/5/1 (Item 1 from file: 347)  
DIALOG(R)File 347:JAPIO  
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06570024 \*\*Image available\*\*  
BUSINESS TRIP MANAGEMENT SYSTEM

PUB. NO.: 2000-155793 [JP 2000155793 A]  
PUBLISHED: June 06, 2000 (20000606)  
INVENTOR(s): MATSUDA HIROSHI  
APPLICANT(s): MATSUDA HIROSHI  
APPL. NO.: 10-331808 [JP 98331808]  
FILED: November 24, 1998 (19981124)  
INTL CLASS: G06F-019/00; G06F-017/60

#### ABSTRACT

PROBLEM TO BE SOLVED: To facilitate approval and work for application for a business trip and money adjustment and to enable the money adjustment even during a business trip.

SOLUTION: The business trip management system is equipped with a business trip management server 11 and terminals 13 to 17 connected to a network line and the business trip management server 11 stores respective files 12 of personnel data regarding applicants for business trips, facility data regarding facilities used for the business trips, foreign exchange data regarding the exchange rates of currency, application data regarding applications for the business trips, and expenditure data regarding the expenditures of the business trips, registers and updates the data stored in the respective files 12 according to indications from the terminals 13 to 17, and provides the data stored in the respective files 12 for the terminals 13 to 17, which are used to apply a business trip, store generated expenditures, adjust money of the business trip, and reserve facility data based upon the schedule of the business trip.

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8/5/2 (Item 2 from file: 347)  
DIALOG(R)File 347:JAPIO  
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05888486 \*\*Image available\*\*  
INPUT DEVICE

PUB. NO.: 10-171586 [JP 10171586 A]  
PUBLISHED: June 26, 1998 (19980626)  
INVENTOR(s): HOSOKAWA MIKIO  
APPLICANT(s): SHARP CORP [000504] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 08-330109 [JP 96330109]  
FILED: December 11, 1996 (19961211)  
INTL CLASS: [6] G06F-003/03; G06F-003/03; G06F-003/03  
JAPIO CLASS: 45.3 (INFORMATION PROCESSING -- Input Output Units)  
JAPIO KEYWORD:R011 (LIQUID CRYSTALS)

#### ABSTRACT

PROBLEM TO BE SOLVED: To provide tool force without providing a pen with a device such as a sensor or the like by calculating the coordinate of pen input from the ratio of current amounts obtained from plural electrodes and calculating the tool force of the pen input from the total sum of the current amounts obtained from the plural electrodes.

SOLUTION: A controller 204 sends coordinate position information and tool force information for which the pen 206 touches a touch panel 205 to a CPU 201 as data based on fine current signal information from the touch panel 205. The CPU 201 stores the data in a memory 202 and displays the information at a corresponding screen position based on the data. At the

time of obtaining the coordinate value, a current from the touch panel 205 is supplied from the electrodes at the four corners of the touch panel 205 to the controller 204, a coordinate where the pen 206 touches the touch panel 205 is obtained from the balance of the four current amounts and the tool force is obtained from the overall size of the four current amounts simultaneously.

8/5/3 (Item 3 from file: 347)

DIALOG(R)File 347:JAPIO

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05589702 \*\*Image available\*\*

INFORMATION MEMORY CARD

PUB. NO.: 09-204502 [JP 9204502 A]

PUBLISHED: August 05, 1997 (19970805)

INVENTOR(s): NISHI SEIJI

MATSUDA HIROYUKI

TAKESADA MUTSUHARU

HIGAKI MICHIO

ICHIBA TADAYUKI

YAMAGISHI NORIKAZU

APPLICANT(s): HITACHI ELECTRON SERVICE CO LTD [403387] (A Japanese Company or Corporation), JP (Japan)

APPL. NO.: 08-009952 [JP 969952]

FILED: January 24, 1996 (19960124)

INTL CLASS: [6] G06K-017/00; B42D-015/10; G06F-019/00; G07D-009/00

JAPIO CLASS: 45.3 (INFORMATION PROCESSING -- Input Output Units); 29.4 (PRECISION INSTRUMENTS -- Business Machines); 30.1 (MISCELLANEOUS GOODS -- Office Supplies); 45.4 (INFORMATION PROCESSING -- Computer Applications)

JAPIO KEYWORD: R087 (PRECISION MACHINES -- Automatic Banking); R107 (INFORMATION PROCESSING -- OCR & OMR Optical Readers)

#### ABSTRACT

PROBLEM TO BE SOLVED: To automatically select the display language of a device which processes a memory card and also to show the exchange rate for the converted on-the-spot currency as desired by a user just by inserting the memory card into the device after storing the information on the display language of guidance.

SOLUTION: A user 1 inserts an information memory card 3 into an automatic teller machine 2. The machine 2 reads the information on the country (currency unit) and the display language out of the card 3 and displays the guidance based on the display language. Then the user 1 performs the necessary input operations. The handling on-the-spot currency (Japanese Yen in this example) is converted into the currency unit of the on-the-spot country in consideration of the present exchange rate. In this case, however, an exchange conversion table that is updated in every fixed period is needed. When the final processing such as the deposit data base processing, etc., is over, the cash handling details is outputted to the user 1.

8/5/4 (Item 4 from file: 347)

DIALOG(R)File 347:JAPIO

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05099415 \*\*Image available\*\*

MACHINING LOAD MONITOR SYSTEM

PUB. NO.: 08-054915 [JP 8054915 A]

PUBLISHED: February 27, 1996 (19960227)

INVENTOR(s): ONISHI YASUSHI

SATO KOJI

APPLICANT(s): FANUC LTD [419041] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 06-190514 [JP 94190514]  
FILED: August 12, 1994 (19940812)  
INTL CLASS: [6] G05B-019/4062; G05B-019/4065; B23Q-017/09; G05B-021/02;  
G05B-023/02; G05B-023/02  
JAPIO CLASS: 22.3 (MACHINERY -- Control & Regulation); 25.2 (MACHINE TOOLS  
-- Cutting & Grinding)  
JAPIO KEYWORD: R063 (MACHINERY -- Numerical Control Machine Tools, NC); R097  
(ELECTRONIC MATERIALS -- Metal Oxide Semiconductors, MOS)

#### ABSTRACT

PURPOSE: To decide the wear of a tool with higher accuracy in a machining load monitor system which monitors the machining load of a numerically controlled machine tool.

CONSTITUTION: A trial machining load data storage means 1 stores the trial machining load data which are detected in a prescribed sampling cycle in trial machining. When a program execution means 3 carries out a machining program 2 equal to a trial machining one in real machining, a machining load detection means 5 detects the real machining load data based on the load current, etc., of a spindle motor 4 under real machining. A counter means 6 compares a wear deciding level that is set based on the trial machining load data with the real machining load data and counts the amount of the real machining load data that exceeds the wear deciding level for each block of the program 2. Then an alarm means 7 calculates the ratio of the excess amount of the real machining load data against the entire sampling amount of a single block and outputs an alarm when this ratio exceeds a prescribed level.

8/5/5 (Item 5 from file: 347)

DIALOG(R) File 347:JAPIO

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03247383 \*\*Image available\*\*  
PLANT MONITOR

PUB. NO.: 02-222883 [JP 2222883 A]  
PUBLISHED: September 05, 1990 (19900905)  
INVENTOR(s): SAKUMA AKIRA  
APPLICANT(s): TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 01-027237 [JP 8927237]  
FILED: February 06, 1989 (19890206)  
INTL CLASS: [5] G21C-017/00  
JAPIO CLASS: 23.1 (ATOMIC POWER -- General); 46.2 (INSTRUMENTATION --  
Testing)  
JOURNAL: Section: P, Section No. 1133, Vol. 14, No. 529, Pg. 88,  
November 20, 1990 (19901120)

#### ABSTRACT

PURPOSE: To enable reliable detection of an abnormality at an arbitrary level by inputting a process information of a plant on-line and manually and by determining the abnormality of the plant on the basis of an abnormality detection level of an manual input means.

CONSTITUTION: A monitoring information from an operator inputted by an input device 1 is transmitted to a monitoring information setting device 2 for setting the kind of the monitoring information, a threshold value and a signal processing method on the basis of the monitoring information. Thereafter, they are inputted to a monitoring information storage device 3 for storing the set content related to the monitoring information and an arithmetic processing device 4 processing a plant process amount on the basis of the specified signal processing method. Plant data from a plant 5 are collected by a data collecting device 6 and then inputted to the device

4. The input information processed by the device 4 is inputted to an abnormality detecting device 7 detecting a **change** in the plant process **amount** at a prescribed level and a data storage device 8 storing the result of computation and the result of diagnosis respectively, and monitoring-diagnosis **data based** on the processed input information are displayed by a monitoring information display device 9.

8/5/6 (Item 6 from file: 347)  
DIALOG(R)File 347:JAPIO  
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01701779 \*\*Image available\*\*  
PICTURE READER

PUB. NO.: 60-180279 [JP 60180279 A]  
PUBLISHED: September 14, 1985 (19850914)  
INVENTOR(s): WATANABE TSUNEHIO  
APPLICANT(s): CANON INC [000100] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 59-034316 [JP 8434316]  
FILED: February 27, 1984 (19840227)  
INTL CLASS: [4] H04N-001/04  
JAPIO CLASS: 44.7 (COMMUNICATION -- Facsimile)  
JAPIO KEYWORD: R131 (INFORMATION PROCESSING -- Microcomputers &  
Microprocessors)  
JOURNAL: Section: E, Section No. 376, Vol. 10, No. 20, Pg. 78, January  
25, 1986 (19860125)

#### ABSTRACT

PURPOSE: To obtain always a sharp picture even if the luminous **amount** of the light source is **changed** by detecting the luminous **amount level** of a light source and adjusting the length of a fill bit to be added to a signal corresponding to a prescribed line's share in a signal **data based** on the level.

CONSTITUTION: When a facsimile equipment enters the state of picture communication, the luminous amount from a reference white background (not shown in figure) is detected and outputted to a sample-and-hold circuit 7. The circuit 7 stores once the output, and after the value is digitized through an A/D converter 8, the result is transmitted to a microprocessor 12. The microprocessor 12 decides the minimum transmission time TMIN to obtain a sharp picture based on the output. When the transmission time T for one line's share of the picture data is smaller than the time TMIN, a fill bit 24 is inserted between an original data 22 and an EOL signal 23 so as to make the consecutive time of the signal matching the data and the fill bit equal to the time TMIN

8/5/7 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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014786795 \*\*Image available\*\*  
WPI Acc No: 2002-607501/200265  
XRPX Acc No: N02-481082

Data sampling method for financial institution, involves adjusting target extraction amount, if target extraction amount exceeds corresponding extractable amount for given attribute

Patent Assignee: DAIWA GINKO KK (DAIW-N); IBM JAPAN LTD (IBMC ); INT  
BUSINESS MACHINES CORP (IBMC )

Inventor: KANIWA Y; YAMAMORI K

Number of Countries: 002 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020077968	A1	20020620	US 200115352	A	20011212	200265 B

JP 2002183432 A 20020628 JP 2000380199 A 20001214 200265

Priority Applications (No Type Date): JP 2000380199 A 20001214

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 20020077968 A1 25 G06F-017/60

JP 2002183432 A 18 G06F-017/60

Abstract (Basic): US 20020077968 A1

NOVELTY - A target extraction amount for each of several attributes, is calculated based on a component ratio . If the calculated amount exceeds corresponding extractable amount for given attribute, the target extraction amount is adjusted to a value that is equal to or less than extractable amount, and retains the component ratio within a predetermined range.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- (1) Data manipulation method;
- (2) Database system; and
- (3) Article of manufacture comprising recorded medium storing data manipulation program.

USE - For data sampling such as loan information in financial institution.

ADVANTAGE - Enables efficient purposive sampling in order to select resultant data having certain multidimensional component ratios.

DESCRIPTION OF DRAWING(S) - The figure shows the flowchart explaining the data sampling method.

pp; 25 DwgNo 2/21

Title Terms: DATA; SAMPLE; METHOD; FINANCIAL; INSTITUTION; ADJUST; TARGET; EXTRACT; AMOUNT; TARGET; EXTRACT; AMOUNT; CORRESPOND; EXTRACT; AMOUNT; ATTRIBUTE

Derwent Class: T01

International Patent Class (Main): G06F-017/60

International Patent Class (Additional): G06F-017/30

File Segment: EPI

8/5/8 (Item 2 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014734411 \*\*Image available\*\*

WPI Acc No: 2002-555115/200259

System and method for implementing virtual reality

Patent Assignee: CHA H J (CHAH-I)

Inventor: CHA H J; CHA J G

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
KR 2002014041	A	20020225	KR 200047078	A	20000816	200259 B

Priority Applications (No Type Date): KR 200047078 A 20000816

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

KR 2002014041 A 1 G06F-019/00

Abstract (Basic): KR 2002014041 A

NOVELTY - A system and method for implementing a virtual reality is provided to enable a user to enjoy a game in the virtual reality by obtaining cyber money according to advertisements and using the cyber money when moving to web pages.

DETAILED DESCRIPTION - A server(20) includes a member database (21), an advertisement database (22), an action module(23), a display module(24), a calculation module(25), a virtual space(26) and a shopping mall(27). The member database (21) stores information on members. The advertisement database (22) stores various sorts of advertisements. In case that a member connects to the server(20)

through a terminal and inputs specific data, the action module(23) enables an avatar to take a corresponding action. In case that the avatar takes the action, the display module(24) displays an advertisement relevant to the action to a screen or a speaker of the terminal. The calculation module(25) provides cyber money in proportion to displaying time for the advertisement to the member. The shopping mall(27) is included in the virtual space(26).

pp; 1 DwgNo 1/10

Title Terms: SYSTEM; METHOD; IMPLEMENT; VIRTUAL

Derwent Class: T01

International Patent Class (Main): G06F-019/00

File Segment: EPI

8/5/9 (Item 3 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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014687360 \*\*Image available\*\*

WPI Acc No: 2002-508064/200254

XRFX Acc No: N02-402074

Meter-rate charging system for Internet users, has processing server which starts meter- rate charging and calculates corresponding amount of money to be settled and then performs settlement for card number

Patent Assignee: IM S (IMSS-I); SONG J H (SONG-I); TOBEWEB CO LTD (TOBE-N)

Inventor: IM S

Number of Countries: 003 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200235415	A1	20020502	WO 2001KR1720	A	20011012	200254 B

Priority Applications (No Type Date): KR 200061016 A 20001017

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200235415 A1 E 55 G06F-017/60

Designated States (National): CN JP US

Abstract (Basic): WO 200235415 A1

NOVELTY - A card database stores information about settlement cards with respect to their card numbers. A processing server starts meter-rate charging when a charging request signal is input from the settlement request system and finishes when a charging completion signal is input. The amount of money to be settled is calculated based on quantity of charging and then settlement is performed for the card number.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for meter-rate charging method.

USE - For charging Internet users who pay through settlement card.

ADVANTAGE - A period of time during which the user has used a terminal, is accurately measured through the settlement card and the charge for using Internet is billed based on measured time, enabling reliable transaction. The meter-rate charging is performed using the settlement card which can be freely charged with a quantity corresponding to amount of money its user wants to spend.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the meter-rate charging system.

pp; 55 DwgNo 1/9

Title Terms: METER; RATE; CHARGE; SYSTEM; USER; PROCESS; SERVE; START;

METER; RATE; CHARGE; CALCULATE; CORRESPOND; AMOUNT; MONEY; SETTLE;

PERFORMANCE; SETTLE; CARD; NUMBER

Derwent Class: S04; T01; T05

International Patent Class (Main): G06F-017/60

File Segment: EPI

8/5/10 (Item 4 from file: 350)



DIALOG(R)File 350:Derwent WPIX  
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014606441

WPI Acc No: 2002-427145/200245

XRPX Acc No: N02-335884

**Method of providing near real-time currency conversion for a subscriber over a network by storing responses to periodic request for exchange rates and using the currently stored rates**

Patent Assignee: COMMERCE ONE (COON-N)

Inventor: RAMESH B

Number of Countries: 095 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200241111	A2	20020523	WO 2001US45647	A	20011114	200245 B
AU 200236548	A	20020527	AU 200236548	A	20011114	200261

Priority Applications (No Type Date): US 2000249670 P 20001117

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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WO 200241111	A2	E	16	G06F-000/00	
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Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

AU 200236548	A			G06F-000/00	Based on patent WO 200241111
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Abstract (Basic): WO 200241111 A2

NOVELTY - A server periodically sends requests to financial institutions for **currency exchange rates** at relatively frequent intervals of a few seconds, e.g. between 1 and three seconds. The responses are stored in a **database** which is used when requests are received from subscribing customers. Weighted averages of rates from various institutions may be used. The exchange rates may be used in an on-line auction to convert bids.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for

(a) a method of dynamically converting currencies during an auction

(b) and a program storage device storing a program of instructions for converting currencies

USE - On-line currency conversion.

ADVANTAGE - Fast currency exchange appropriate for use in an on-line auction.

pp; 16 DwgNo 0/3

Title Terms: METHOD; REAL; TIME; CURRENCY; CONVERT; SUBSCRIBER; NETWORK; STORAGE; RESPOND; PERIODIC; REQUEST; EXCHANGE; RATE; CURRENT; STORAGE; RATE

Derwent Class: T01; T05

International Patent Class (Main): G06F-000/00

File Segment: EPI

8/5/11 (Item 5 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014568577 \*\*Image available\*\*

WPI Acc No: 2002-389280/200242

XRPX Acc No: N02-305229

**Pulsometer has process unit that updates or deletes reference pulse width and interval data , based on evaluated objective pulse width and interval data**

Patent Assignee: TANITA KK (TANI-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2002102185	A	20020409	JP 2000302755	A	20001002	200242 B

Priority Applications (No Type Date): JP 2000302755 A 20001002

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2002102185	A		9 A61B-005/0245	

Abstract (Basic): JP 2002102185 A

NOVELTY - Process units (13,14) evaluate an objective pulse width pulse and objective pulse interval, respectively based on pulse width and interval evaluation range that are setup based on deviation from reference pulse width and interval respectively. The process units update or delete reference pulse width and interval data, respectively based on the evaluated objective pulse width and interval data.

USE - For measuring pulse rate used for measuring calorie consumption and fat combustion amount.

ADVANTAGE - Enables reliable and correct measurement of pulse rate . Enables calculation of calorie consumption and amount of fat consumption correctly and reliably, based on measured pulse rate.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of pulsometer. (Drawing includes non-English language text).

Process units (13,14)

pp; 9 DwgNo 2/15

Title Terms: PULSOMETER; PROCESS; UNIT; UPDATE; DELETE; REFERENCE; PULSE; WIDTH; INTERVAL; DATA; BASED; EVALUATE; OBJECTIVE; PULSE; WIDTH; INTERVAL ; DATA

Derwent Class: P31; S05

International Patent Class (Main): A61B-005/0245

File Segment: EPI; EngPI

8/5/12 (Item 6 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014516355 \*\*Image available\*\*

WPI Acc No: 2002-337058/200237

**Method for automatic notification of exchange rate/interest rate and exchange rate sign board**

Patent Assignee: TAEGU BANK CO LTD (TAEG-N)

Inventor: KIM Y C; SON Y U

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
KR 2001106755	A	20011207	KR 200027699	A	20000523	200237 B

Priority Applications (No Type Date): KR 200027699 A 20000523

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
KR 2001106755	A		1 G06F-019/00	

Abstract (Basic): KR 2001106755 A

NOVELTY - A method for automatic notification of exchange rate/interest rate and exchange rate sign board is provided to completely automate the notification of exchange rate/interest rate and the notification of exchange rate sign board.

DETAILED DESCRIPTION - Bridge and Reuter networks(100) provides domestic and foreign exchange rate/interest rate and news information to corresponding institutions(banks, security cooperations, large-sized companies, organs of expression, etc.) requiring financial and news information and the like. A front system(200) receives the corresponding information and processes the same. An international financial system(300) stores and processes exchange rate /interest rate information received from the front system(200) and transmits the same to a host computer(700). An exchange rate/interest rate

notification database (400) stores the exchange rate/interest rate information and the transmission state of the host computer(700).

pp; 1 DwgNo 1/10

Title Terms: METHOD; AUTOMATIC; NOTIFICATION; EXCHANGE; RATE; INTEREST; RATE; EXCHANGE; RATE; SIGN; BOARD

Derwent Class: T01

International Patent Class (Main): G06F-019/00

File Segment: EPI

8/5/13 (Item 7 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014516270 \*\*Image available\*\*

WPI Acc No: 2002-336973/200237

**System and method for changing money using internet**

Patent Assignee: KOREA EXCHANGE BANK CO LTD (KOEX-N)

Inventor: CHO H J

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
KR 2001106573	A	20011207	KR 200027380	A	20000522	200237 B

Priority Applications (No Type Date): KR 200027380 A 20000522

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
KR 2001106573	A	1	G06F-017/60	

Abstract (Basic): KR 2001106573 A

NOVELTY - A system and method for changing money using Internet is provided to access to a web site of a bank, request for money exchange, and receive foreign currency from a pertinent business office.

DETAILED DESCRIPTION - A customer accesses to Internet by using a terminal, accesses to a web site provided through a web server of a pertinent bank, and requests for money exchange(100). The customer receives user number, account number, account password, transfer number, and safety card random number(110). The won currency calculated based on an exchange rate is withdrawn and money exchange is performed(120). After the money exchange is completed, money exchange particulars are notified to a business office that the customer appoints(130). The pertinent business office receives the money exchange particulars and prepares money exchange. The business office may inquire the customers' money exchange particulars stored in a database by using a terminal(140). The business office prepares a foreign currency(150). When the customer requests for the foreign currency, the business office confirms the customer's identity, limit of travel expense and so on(160), and gives the prepared foreign currency.

pp; 1 DwgNo 1/10

Title Terms: SYSTEM; METHOD; CHANGE; MONEY

Derwent Class: T01

International Patent Class (Main): G06F-017/60

File Segment: EPI

8/5/14 (Item 8 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014493525 \*\*Image available\*\*

WPI Acc No: 2002-314228/200235

**Device and method for monitoring database efficiency**

Patent Assignee: EXEM CO LTD (EXEM-N)

Inventor: CHO J A

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
KR 2001106166	A	20011129	KR 200115453	A	20010324	200235 B

Priority Applications (No Type Date): KR 200115453 A 20010324

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
KR 2001106166	A		1 G06F-017/40	

Abstract (Basic): KR 2001106166 A

NOVELTY - A device and a method for monitoring **database** efficiency are provided to monitor **database** efficiency data of a program level.

DETAILED DESCRIPTION - The device for monitoring **database** efficiency includes an upper level monitoring part(62), a selective data monitoring part(66) and a lower level monitoring part(68). The upper level monitoring part(62) calculates variation amount by an unit time of **database** efficiency data of the whole **database** level respectively, and displays the results. The selective data monitoring part(66) accesses **database** efficiency data of each program correspondent to **database** efficiency data selected among the **database** efficiency data displayed by the upper level monitoring part(62). The selective data monitoring part(66) calculates variation amount by the unit time of each accessed **database** efficiency data of each program. The selective data monitoring part(66) arranges the calculated variation amount by the unit time of each program by reverse order of amount, and displays the results. The lower level monitoring part(68) displays **database** efficiency data of program level for the program selected among the programs displayed by the selective data monitoring part(66).

pp; 1 DwgNo 1/10

Title Terms: DEVICE; METHOD; MONITOR; **DATABASE** ; EFFICIENCY

Derwent Class: T01

International Patent Class (Main): G06F-017/40

File Segment: EPI

8/5/15 (Item 9 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014457709 \*\*Image available\*\*

WPI Acc No: 2002-278412/200232

**Investment batting type lottery dealing method**

Patent Assignee: LEE S (LEES-I)

Inventor: LEE S J

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
KR 2001103082	A	20011123	KR 200157591	A	20010918	200232 B

Priority Applications (No Type Date): KR 200157591 A 20010918

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
KR 2001103082	A		1 G06F-017/60	

Abstract (Basic): KR 2001103082 A

NOVELTY - An investment batting type lottery dealing method is provided to bat to a desired lottery and receive a winning prize amount when the batted lottery is won.

DETAILED DESCRIPTION - An off line lottery by kinds is previously purchased and an image file for the off line lottery is stored in a **database** . The number of each lottery is recognized and changed to a text form, the number of each lottery of the text form is distributed with a banner advertisement. A plurality of different lotteries are differently distributed and bat. When a customer purchases the

lotteries, an investment batting is performed. A rate distribution server automatically and **proportionally calculates** the differently distributed and bat **amount** . When a lottery data comes, a lottery result is disclosed over internet. It is confirmed whether a prize winner is present according to the lottery result. A winning amount is provided to the prize winner.

pp; 1 DwgNo 1/10

Title Terms: INVESTMENT; BATTING; TYPE; LOTS; DEAL; METHOD

Derwent Class: T01

International Patent Class (Main): G06F-017/60

File Segment: EPI

8/5/16 (Item 10 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014454801 \*\*Image available\*\*

WPI Acc No: 2002-275504/200232

XRPX Acc No: N02-215008

**Sales information management system for global enterprise, computes sales information in Japanese currency from sales information in local currency using exchange rate , based on which generates multidimensional database**

Patent Assignee: OMRON KK (OMRO )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2002024515	A	20020125	JP 2000209736	A	20000711	200232 B

Priority Applications (No Type Date): JP 2000209736 A 20000711

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2002024515	A		13 G06F-017/60	

Abstract (Basic): JP 2002024515 A

NOVELTY - A computation unit computes sales information in Japanese currency from the sales information in local **currency using exchange rate** stored in a rate storage unit. A **database** generating unit generates multidimensional **database** using the computed sales information. An output unit outputs sales information both in local currency and Japanese currency, based on the data stored in the multidimensional **database** .

USE - Sales information management system for global enterprise.

ADVANTAGE - Enables to output sales information both in local currency, and Japanese currency, by generating **database** .

DESCRIPTION OF DRAWING(S) - The figure shows a detailed block diagram of the sales information management system. (Drawing includes non-English language text).

pp; 13 DwgNo 3/14

Title Terms: SALE; INFORMATION; MANAGEMENT; SYSTEM; GLOBE; COMPUTATION;

SALE; INFORMATION; JAPAN; CURRENCY; SALE; INFORMATION; LOCAL; CURRENCY;

EXCHANGE; RATE; BASED; GENERATE; MULTIDIMENSIONAL; **DATABASE**

Derwent Class: T01

International Patent Class (Main): G06F-017/60

International Patent Class (Additional): G07G-001/12

File Segment: EPI

8/5/17 (Item 11 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014444485 \*\*Image available\*\*

WPI Acc No: 2002-265188/200231

**Method and system for providing international financial transaction**

**service using the internet**

Patent Assignee: MONEY PRIME CO LTD (MONE-N)

Inventor: KIM J H

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
KR 2001102666	A	20011116	KR 200023843	A	20000504	200231 B

Priority Applications (No Type Date): KR 200023843 A 20000504

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
KR 2001102666	A		1 G06F-017/60	

Abstract (Basic): KR 2001102666 A

NOVELTY - A method and system for providing an international financial transaction service using the internet is provided to enable a user to reduce the time and expenses by enabling the user who's staying abroad to perform a financial domestic transaction without the need for entering a country.

DETAILED DESCRIPTION - A member(10) connects to a web site and requests financial information. A residence judgement system unit(100) is connected with a **database** of an immigration bureau and judges a residence of a member. A tax application system unit(200) calculates real amount of money received according to the selected country. An investment information system unit(300) analyzes the member's tendency to invest and recommends a relevant **financial** product. An **exchange rate** and interest providing system unit(800) processes and provides each foreign exchange rate and interest relevant to the member. An investment determination system unit(400) provides a service for enabling the member to select and invest in a financial product. A profit and loss adjustment system unit(500) stores the financial product and the statements the member transacted in a **database** and calculates a commission and brokerage. A financial product bid system unit(600) enables each financial institution to select each financial product of countries through a bid site. A destination service unit(700) provides a service off-line in case that a member staying abroad transacts a financial product. A financial institution(80) is connected with a web site(20). In addition, the financial institution(80) provides information on the financial product.

pp; 1 DwgNo 1/10

Title Terms: METHOD; SYSTEM; INTERNATIONAL; FINANCIAL; TRANSACTION; SERVICE

Derwent Class: T01

International Patent Class (Main): G06F-017/60

File Segment: EPI

8/5/18 (Item 12 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014427552 \*\*Image available\*\*

WPI Acc No: 2002-248255/200230

XRFX Acc No: N02-192664

**Fee charging apparatus for multimedia information broadcast system, generates graph between audience basic fee amount and fee setting rate, based on received audience rating data**

Patent Assignee: SONY CORP (SONY )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2002032667	A	20020131	JP 2000213154	A	20000713	200230 B

Priority Applications (No Type Date): JP 2000213154 A 20000713

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2002032667	A		12 G06F-017/60	

Abstract (Basic): JP 2002032667 A

NOVELTY - A server (80) generates a graph between the audience basic fee amount and viewing-and-listening fee setting rate, based on the received audience rating data. A calculation unit (11) of a customer management section (40) calculates the individual fee amount and fee estimation data based on generated graph. A notification unit notifies the individual fee amount information to the user terminals.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for audience fee amount billing method.

USE - For multimedia information broadcast system.

ADVANTAGE - Since fee amount is calculated based on audience rating information, the overall fee amount for a viewer is reduced.

DESCRIPTION OF DRAWING(S) - The figure shows a block diagram of broadcast system. (Drawing includes non-English language text).

Calculation unit (11)

Customer management section (40)

Server (80)

pp; 12 DwgNo 1/8

Title Terms: FEE; CHARGE; APPARATUS; INFORMATION; BROADCAST; SYSTEM;  
GENERATE; GRAPH; AUDIENCE; BASIC; FEE; AMOUNT; FEE; SET; RATE; BASED;  
RECEIVE; AUDIENCE; RATING; DATA

Derwent Class: T01

International Patent Class (Main): G06F-017/60

International Patent Class (Additional): H04N-007/16

File Segment: EPI

8/5/19 (Item 13 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014378786 \*\*Image available\*\*

WPI Acc No: 2002-199489/200226

XRPX Acc No: N02-151617

Dealing simulation system used in financial market, has exchange -  
rate modification unit which changes displayed rate data based on  
influence display news after passage of time

Patent Assignee: CFO HONBU KK (CFOH-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2001350852	A	20011221	JP 2000169521	A	20000606	200226 B

Priority Applications (No Type Date): JP 2000169521 A 20000606

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

JP 2001350852 A 14 G06F-017/60

Abstract (Basic): JP 2001350852 A

NOVELTY - A rate display unit displays information such as exchange rate, interest rate of debenture in an overhead market. A dealing indication receipt unit receives exchange dealing indication after the news display unit displays news corresponding to the data displayed in the rate display unit. The displayed rate data is modified based on the news after a time period by an exchange-rate modification unit.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for recorded medium storing dealing simulation program.

USE - Used in financial market place.

ADVANTAGE - News analysis is improved.

DESCRIPTION OF DRAWING(S) - The figure shows the course selection menu displayed by the dealing simulation system. (Drawing includes non-English language text).

pp; 14 DwgNo 3/21

Title Terms: DEAL; SIMULATE; SYSTEM; FINANCIAL; MARKET; EXCHANGE; RATE;

MODIFIED; UNIT; CHANGE; DISPLAY; RATE; DATA; BASED; INFLUENCE; DISPLAY;  
NEWS; AFTER; PASSAGE; TIME  
Derwent Class: T01  
International Patent Class (Main): G06F-017/60  
International Patent Class (Additional): G06F-019/00  
File Segment: EPI

8/5/20 (Item 14 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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014365218 \*\*Image available\*\*  
WPI Acc No: 2002-185919/200224

**Cyber money auction system and method**

Patent Assignee: MOON Y S (MOON-I)

Inventor: MOON Y S

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
KR 2001092976	A	20011027	KR 200015739	A	20000328	200224 B

Priority Applications (No Type Date): KR 200015739 A 20000328

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
KR 2001092976	A		1 G06F-019/00	

Abstract (Basic): KR 2001092976 A

NOVELTY - A cyber money auction system and method is provided to enable a user to variously make use of cyber money by enabling the user to put up the cyber money for auction on an internet site, and by converting the cyber money into cash.

DETAILED DESCRIPTION - A cyber money purchasing/selling system(100) is composed of a web page providing unit(110), a member management unit(120), a cyber money purchasing/selling unit(130), a cyber money exchange unit(140) and a database unit(150) composed of a web database (151), a member database (152), a cyber money database (153) and a money exchange database (154). The web page providing unit(110) provides a homepage window from the web database (151) in case that an URL(Uniform Resource Locator) resource request signal is received from an internet terminal(10). The member management unit(120) provides a log-in file read from the member database (151) to a user connecting through the internet. The cyber money purchasing/selling unit(130) makes public selling of cyber money according to the member's request. The cyber money exchange unit(140) manages cyber money transacted by the cyber money to exchange into cash. The cyber money exchange unit(140) converts cyber money of another site into an exchange rate of the cyber money regulated.

pp; 1 DwgNo 1/10

Title Terms: MONEY; AUCTION; SYSTEM; METHOD

Derwent Class: T01

International Patent Class (Main): G06F-019/00

File Segment: EPI

8/5/21 (Item 15 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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014348893 \*\*Image available\*\*  
WPI Acc No: 2002-169596/200222

**System for international payment**

Patent Assignee: YUN H G (YUNH-I)

Inventor: YUN H G

Number of Countries: 001 Number of Patents: 001

Patent Family:



Patent No	Kind	Date	Applicat No	Kind	Date	Week
KR 2001090414	A	20011018	KR 200015391	A	20000325	200222 B

Priority Applications (No Type Date): KR 200015391 A 20000325

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
KR 2001090414	A		1 G06F-017/60	

Abstract (Basic): KR 2001090414 A

NOVELTY - A system for an international payment is provided to offer a system capable of paying between a client and a business man as an electronic commercial transaction of a client terminal, a financial institution server, and the business man.

DETAILED DESCRIPTION - A client **database** (100) receives a joining request from a client, creates a client account, records and confirms a deposit amount of the client. A businessman **database** (120) outputs data processed by a reference currency of an international transaction. When a transaction is performed internationally, a transaction contents **database** (130) inquiries a selling exchange rate of an exchange rate **database** (140), **converts** into a local **currency**, and updates and records the currency. When a transaction is performed internationally, the exchange rate **database** (140) inquiries a buying exchange rate of the balance of the client **database** (100), and converts the balance into amount of the reference currency.

pp; 1 DwgNo 1/10

Title Terms: SYSTEM; INTERNATIONAL; PAY

Derwent Class: T01

International Patent Class (Main): G06F-017/60

File Segment: EPI

8/5/22 (Item 16 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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014291451 \*\*Image available\*\*

WPI Acc No: 2002-112152/200215

**Exchange management system using the internet**

Patent Assignee: KIM J S (KIMJ-I)

Inventor: KIM J S

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
KR 2001081722	A	20010829	KR 20007798	A	20000218	200215 B

Priority Applications (No Type Date): KR 20007798 A 20000218

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
KR 2001081722	A		1 G06F-017/60	

Abstract (Basic): KR 2001081722 A

NOVELTY - An exchange management system using the Internet is provided to reduce the loss of the difference of exchanges and the expenses for exchanging foreign **currency** by transacting business in market **exchange rates** in case that exporters and importers sell and buy foreign currency.

DETAILED DESCRIPTION - A data unit is composed of a member information **database** which stores information related to each user, an exchange rate fluctuations **database** which stores change values of exchange rates by time series and an exchange transaction **database** which stores information related to exchange transaction of each user. An exchange risk management unit is composed of an input unit which inputs a form of **currency**, contract **exchange rates** and so on, an analysis unit which analyzes and extracts estimated exchange rates, a calculation unit which calculates exchange risks on the basis of the estimated exchange rates, an output unit which outputs the exchange

risks calculated and a control unit which controls each part.

pp; 1 DwgNo 1/10

Title Terms: EXCHANGE; MANAGEMENT; SYSTEM

Derwent Class: T01

International Patent Class (Main): G06F-017/60

File Segment: EPI

8/5/23 (Item 17 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014203287 \*\*Image available\*\*

WPI Acc No: 2002-023984/200203

Method for telebanking using voice

Patent Assignee: METEL CORP (METE-N)

Inventor: LEE S G

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
KR 2001067787	A	20010713	KR 200115662	A	20010326	200203 B

Priority Applications (No Type Date): KR 200115662 A 20010326

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
KR 2001067787	A		1 H04M-003/50	

Abstract (Basic): KR 2001067787 A

NOVELTY - A method for telebanking using a voice is provided for a user who uses the telebanking service through a wired or radio line or the Internet to have a high quality of service of inquiring a bank account, money-remittance, loan or credit card by using a voice.

DETAILED DESCRIPTION - A user accesses to an operator server(30) via a certain communication network(20) to his or her own terminal equipment, and the operator server(30) calls a greeting message out of the messages stored in a **database** and outputs it to the user terminal. The server determines if there is any official announcement. Having an official announcement, the announcement message is output to the user terminal and proceeds to main menu. Having no official announcement, the step directly proceeds to the main menu. Then, the server guides the user to the main menu. The main menu prepares an inquiry mode(S200), money-remittance mode(S300), loan mode(S400), credit card mode(S500) and accident inquiry mode(S600) based upon detecting a voice of a user. The inquiry mode(S200) offers the user the services such as the inquiries for a **balance money**, receipt/withdrawal **money** and **exchange rate**. The **money** -remittance mode(S300) prepares a money-transfer service to a banking facilities such as a bank, a stock company or an investment trust company. The loan mode(S400) prepares the service of checking the loan money or information about loan service. The credit card mode(S500) prepares the information of available services for the user of a credit card. The accident inquiry mode(S600) prepares the services of inquiring the loss of a check or a credit card of a user, followed by its report.

pp; 1 DwgNo 1/10

Title Terms: METHOD; VOICE

Derwent Class: W01

International Patent Class (Main): H04M-003/50

File Segment: EPI

8/5/24 (Item 18 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014026157 \*\*Image available\*\*

WPI Acc No: 2001-510371/200156

**Discount sales service method using member information**

Patent Assignee: BBC BROWN BOVERI & CO LTD (BROV )

Inventor: LEE U I

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
KR 2001007957	A	20010205	KR 200063980	A	20001030	200156 B

Priority Applications (No Type Date): KR 200063980 A 20001030

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
KR 2001007957	A		1	G06F-017/6001	

Abstract (Basic): KR 2001007957 A

NOVELTY - A discount sales service method using member information is provided to refund cash to member with an increased discount rate and to offer member information and market analytic data to chain stores and affiliated companies so that they can invite more clients and obtain consultations on administration.

DETAILED DESCRIPTION - If a member purchases goods at a chain store or an affiliated company using a membership card(S201), a card reader detects member information from the card(S202) and transmits detected member information, various sales information inputted by the chain store or the affiliated company and intrinsic information detected by the card reader to a service providing server(S203). An information classification part in the service providing server(S203) classifies transmitted information by information kinds and provides it to a CPU. The CPU analyzes purchase information through a purchase information analysis part, based on member information, sales information and intrinsic information(S204). A discount amount calculation part calculates a given rate for the price of the goods into discounted money using the price information of the goods(S205). Discounted money is transferred to the member's account through an adjustment part(S206). A marketing data analysis generation part generates marketing data through a data mining technique and an online analytical processing technique, based on purchase information analyzed by the purchase information analysis part(S207) and stores the generated marketing data in a marketing data database (S208).

pp; 1 DwgNo 1/10

Title Terms: DISCOUNT; SALE; SERVICE; METHOD; MEMBER; INFORMATION

Derwent Class: T01

International Patent Class (Main): G06F-017/6001

File Segment: EPI

8/5/25 (Item 19 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013888046 \*\*Image available\*\*

WPI Acc No: 2001-372259/200139

XRPX Acc No: N01-272340

**Data transmission device e.g. for voice data, has CPU to decide compression rate of voice data , based on money received from coin machine**

Patent Assignee: FUJII PHOTO FILM CO LTD (FUJF )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2001111729	A	20010420	JP 99283124	A	19991004	200139 B

Priority Applications (No Type Date): JP 99283124 A 19991004

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2001111729	A		6	H04M-015/00	

Abstract (Basic): JP 2001111729 A

NOVELTY - A user inputs money from a coin machine (18) for sending voice data from a microphone (16) to a host machine (50) via a transmission line e.g. network. Compression rate of voice data is decided by the CPU (10), based on the money input from the coin machine.

USE - E.g. for transmitting voice data, image data.

ADVANTAGE - Since the compression rate of voice data changes with the money input from coin machine, lack of money for voice data transmission is prevented.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of data transmission device. (Drawing includes non-English language text).

CPU (10)  
Microphone (16)  
Coin machine (18)  
Host machine (50)  
pp; 6 DwgNo 1/4

Title Terms: DATA; TRANSMISSION; DEVICE; VOICE; DATA; CPU; DECIDE; COMPRESS ; RATE; VOICE; DATA; BASED; MONEY; RECEIVE; COIN; MACHINE

Derwent Class: P86; W01

International Patent Class (Main): H04M-015/00

International Patent Class (Additional): G10L-019/00; H04M-011/00; H04N-005/765; H04N-007/16

File Segment: EPI; EngPI

8/5/26 (Item 20 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013832053 \*\*Image available\*\*

WPI Acc No: 2001-316265/200133

Related WPI Acc No: 2000-686544

XRPX Acc No: N01-227346

Data processing system for facilitating merchandise transactions, allocates monetary points calculated proportional to purchase made for specified amount of money, between two specified accounts of respective persons

Patent Assignee: CUCKLEBURR.COM INC (CUCK-N)

Inventor: BLACKMON M T; BRIZENDINE K; CARINI G; DEBEER B; DUNN K S; PELTZ B ; PELTZ D; STONE W E; YOCKEY J A

Number of Countries: 087 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200129733	A2	20010426	WO 2000US28451	A	20001013	200133 B
AU 200110860	A	20010430	AU 200110860	A	20001013	200148

Priority Applications (No Type Date): US 2000418627 A 20001006; US 99418627 A 19991015

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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WO 200129733	A2	E 214	G06F-017/60	
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Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW

AU 200110860	A		G06F-017/60	Based on patent WO 200129733
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Abstract (Basic): WO 200129733 A2

NOVELTY - A calculator calculates the monetary points proportionate to the purchase made for specified amount of money. The calculated points are allocated between two specified accounts of

specified persons for purchasing additional merchandise and for funding medical expenses incurred from a medical service provider (184). The allocated points are stored in the **database**.

DETAILED DESCRIPTION - A card reader (144) connected to a computer (142) stores and retrieves the data relating to a member, which are processed by a computer, from a **database**. The **database** also contains account number of respective persons. Data regarding the purchase of merchandise from a merchant, for a specified amount of money are entered into the computer. An INDEPENDENT CLAIM is also included for the data processing method.

USE - For facilitating purchase of merchandise in retail stores.

ADVANTAGE - Since the **monetary** points are **calculated proportional** to the purchase made for a specified amount of money and allocated between the account of respective persons, the users are aware about the remaining amount of money.

DESCRIPTION OF DRAWING(S) - The figure shows the network of the data processing system.

Computer (142)

Card reader (144)

Medical service provider (184)

pp; 214 DwgNo 1/44

Title Terms: DATA; PROCESS; SYSTEM; FACILITATE; MERCHANDISE; TRANSACTION; ALLOCATE; MONEY; POINT; CALCULATE; PROPORTION; PURCHASE; MADE; SPECIFIED; AMOUNT; MONEY; TWO; SPECIFIED; ACCOUNT; RESPECTIVE; PERSON

Derwent Class: T01

International Patent Class (Main): G06F-017/60

File Segment: EPI

8/5/27 (Item 21 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013265545 \*\*Image available\*\*

WPI Acc No: 2000-437450/200038

XRPX Acc No: N00-327353

**Business trip service management system for reserving ticket in airplanes, train, has management sensor to supply various information to terminals which supply information regarding trip to user**

Patent Assignee: MATSUDA H (MATS-I)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2000155793	A	20000606	JP 98331808	A	19981124	200038 B

Priority Applications (No Type Date): JP 98331808 A 19981124

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2000155793	A		9 G06F-019/00	

Abstract (Basic): JP 2000155793 A

NOVELTY - A business trip service management server (11) registers data output from a **database** (12). The various stored information are updated by data entered into the terminals (13-17). The data such as business trip application, cost saving expenditure for business trip are supplied from server to the terminals (13-17).

DETAILED DESCRIPTION - The **database** (12) stores various information such as applicant of business trip, facility utilized during the trip, **exchange rate of currency**, obtained from terminals (13-17).

USE - For managing business trip e.g. for reservation and settlement of accounts in airplanes, trains.

ADVANTAGE - Since information regarding trip is supplied from a server to various terminals, the cost required for the business trip is evaluated appropriately and thus money is spent efficiently.

DESCRIPTION OF DRAWING(S) - The figure shows the business trip

service management system.

Management server (11)

Database (12)

Terminals (13-17)

pp; 9 DwgNo 1/13

Title Terms: BUSINESS; TRIP; SERVICE; MANAGEMENT; SYSTEM; RESERVE; TICKET;  
TRAIN; MANAGEMENT; SENSE; SUPPLY; VARIOUS; INFORMATION; TERMINAL; SUPPLY;  
INFORMATION; TRIP; USER

Derwent Class: T01

International Patent Class (Main): G06F-019/00

International Patent Class (Additional): G06F-017/60

File Segment: EPI

8/5/28 (Item 22 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013255940 \*\*Image available\*\*

WPI Acc No: 2000-427823/200037

XRPX Acc No: N00-319448

Data encoder for broadcasting system, has generation symbols which  
synchronizes with output data based on code-word length, output of  
generator and calculator

Patent Assignee: SONY CORP (SONY )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2000151420	A	20000530	JP 98323957	A	19981113	200037 B

Priority Applications (No Type Date): JP 98323957 A 19981113

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2000151420	A		24	H03M-007/40	

Abstract (Basic): JP 2000151420 A

NOVELTY - A generator (207) generates coefficient order  
corresponding to each codeword level. A calculator calculates  
total amount of generation symbols for unit time. Based on length of  
each codeword, output of generator and calculator, amount of  
symbols representing proportion between amount of generation symbols  
of coefficient row to total amount of generation symbols of output data  
per unit time is generated.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the  
following:

- (a) data encoding procedure;
- (b) data processor;
- (c) data processing procedure;
- (d) data converter;
- (e) data conversion procedure;
- (f) data multiplexer;
- (g) data multiplexing procedure;
- (h) data transmission apparatus

USE - For digital satellite broadcasting system, etc.

ADVANTAGE - Gain of buffer is suppressed effectively as the  
generation symbols synchronized with the output data. Then, in  
multiplexing, increase in delay time is avoided.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of  
video encoder.

Generator (207)

pp; 24 DwgNo 2/17

Title Terms: DATA; ENCODE; BROADCAST; SYSTEM; GENERATE; SYMBOL; OUTPUT;

DATA; BASED; CODE; WORD; LENGTH; OUTPUT; GENERATOR; CALCULATE

Derwent Class: U21

International Patent Class (Main): H03M-007/40

International Patent Class (Additional): H03M-007/30; H04J-003/00;

8/5/29 (Item 23 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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013204662  
WPI Acc No: 2000-376535/200032  
XRAM Acc No: C00-113937  
XRPX Acc No: N00-282706

Novel method for obtaining an isolated polynucleotide encoding  
ADP-glucose pyrophosphorylase with enhanced catalytic activity comprising  
polynucleotide sequence shuffling and phenotype selection of parameter of  
the enzyme activity

Patent Assignee: MAXYGEN INC (MAXY-N)  
Inventor: STEMMER W P C; SUBRAMANIAN V  
Number of Countries: 091 Number of Patents: 003  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200028018	A1	20000518	WO 99US26797	A	19991109	200032 B
AU 200016194	A	20000529	AU 200016194	A	19991109	200041
EP 1129184	A1	20010905	EP 99958924	A	19991109	200151
			WO 99US26797	A	19991109	

Priority Applications (No Type Date): US 98107782 P 19981110

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200028018 A1 E 85 C12N-015/10

Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN  
CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP  
KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE  
SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR  
IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW

AU 200016194 A C12N-015/10 Based on patent WO 200028018

EP 1129184 A1 E C12N-015/10 Based on patent WO 200028018

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT  
LI LT LU LV MC MK NL PT RO SE SI

Abstract (Basic): WO 200028018 A1

NOVELTY - Obtaining (M1) an isolated polynucleotide (I) encoding an  
enhanced ADP-glucose pyrophosphorylase (ADPGPP) (II) with an enzymatic  
phenotype different from the protein encoded by the parental  
polynucleotide (PP) by recombining several PP encoding (II) to form a  
sequence shuffled ADPGPP polynucleotide (SAP) library, and transforming  
it into host cells to select a transformant, is new.

DETAILED DESCRIPTION - Novel method (M1) of obtaining an isolated  
polynucleotide encoding (II) with ADPGPP catalytic activity where the  
enzymatic phenotype is significantly different to a protein encoded by  
a parental polynucleotide encoding a naturally occurring (II)  
comprising:

- (a) recombining several parental polynucleotide species encoding  
(II) to form a SAP library;
- (b) transferring the library into host cells to form a transformant  
library in which the SAP are expressed;
- (c) assaying individual or pooled transformants for ADPGPP  
catalytic activity to determine relative or absolute ADPGPP enzymatic  
phenotype and thus identifying an enhanced transformant that expresses  
(II); and

(d) recovering the SAP from the enhanced transformant.

INDEPENDENT CLAIMS are also included for the following:

- (1) a plant cell protoplast and its clonal progeny containing a SAP  
encoding a subunit of (II) which is not encoded by the naturally  
occurring genome of the plant cell protoplast;

(2) a collection of plant cell protoplasts transformed with a SAP library;

(3) a regenerated plant containing a species of replicable or integrated polynucleotides comprising a SAP and encoding a subunit of (II);

(4) a regenerated plant comprising a polynucleotide expression cassette encoding a shuffled ADPGPP gene;

(5) a polynucleotide (III) comprising a sequence encoding a shuffled ADPGPP subunit gene linked to a selectable marker gene and optionally flanked (upstream and downstream) by recombinogenic sequences with sufficient sequence identity to a chloroplast genome sequence to mediate efficient recombination;

(6) producing (M2) a recombinant cell having elevated starch production activity comprising:

(i) recombining at least 1 ADPGPP enzyme coding nucleic acid or its homologue with at least 1 homologous nucleic acid to produce a library of recombinant enzyme nucleic acid homologues;

(ii) optionally repeating (6.i) at least once using at least 1 member of the library of recombinant enzyme nucleic acid homologues as the ADPGPP enzyme coding nucleic acid, or as the homologous nucleic acid, to produce a diversified library of recombinant enzyme nucleic acid homologues;

(iii) selecting a library of recombinant enzyme nucleic acid homologues or the diversified library of recombinant enzyme nucleic acid homologues for an increased or decreased ADPGPP catalytic rate, an altered substrate specificity, and/or the increased ability of a cell expressing at least 1 member of the library to produce starch, to produce a selected library of recombinant enzyme nucleic acid homologues; and

(iv) recursively repeating (i)-(iii) at least once where the selected library of recombinant enzyme nucleic acid homologues provides at least 1 ADPGPP enzyme coding nucleic acid or its homologue or the homologous nucleic acid of (i) in which (i)-(iii) steps are repeated until at least 1 member of the selected library produces an elevated starch level in a target recombinant cell when the a selected library member is expressed;

(7) a selected library as in (M2);

(8) the diversified library of (M2);

(9) the target recombinant cell of (M2); and

(10) the plant comprising the target recombinant cell of (M2).

USE - The methods are useful for producing a desired ADPGPP enzymatic phenotype that can include increased substrate usage rate at a given substrate concentration, decreased inhibition by a PEPC inhibitor (desensitization), increased  $K_m$  for an inhibitor (desensitization), increased activation by an activator (desensitization), decreased  $K_m$  for activator (desensitization), complete lack of need for activation (desensitization), decreased ratio of  $K_m$  for activator to  $K_m$  for inhibitor, and velocity ( $V_{max}$ ) for substrate use. The methods are useful for generating sequence shuffled ADPGPP polynucleotides encoding a single subunit ADPGPP which is catalytically active in the absence of heterologous proteins. The can be used to evolve a heterologous ADPGPP sequence (e.g., a non-naturally occurring mutant gene, or a subunit from another species) to optimize its function in concert with a complementing subunit and/or in a particular host cell. The methods also provide a means to evolve ADPGPP gene variants and/or suitable host cells, and providing a model system for evaluating a library of agents to identify candidate agents that could find use as agricultural reagents for commercial applications.

ADVANTAGE - The methods provide general means for producing novel ADPGPP enzymes, including increasing the diversity of the ADPGPP gene pool and the rate at which genetic sequences encoding one or more ADPGPP subunits having desired properties are evolved and are suitable for rapid evolution of genetic sequences to function in one or more plant species and confer an improved ADPGPP phenotype (e.g. reduced sensitivity to inhibitors (e.g. Pi or AMP), reduced dependence on activators (e.g. PGA or FBP), improved catalytic efficiency via



increasing Vmax and/or increasing the apparent affinity of substrates for the enzyme, and/or relieving a requirement for allosteric activation or inhibition by allosteric repression.

pp; 85 DwgNo 0/2

Title Terms: NOVEL; METHOD; OBTAIN; ISOLATE; POLYNUCLEOTIDE; ENCODE; ADP; GLUCOSE; ENHANCE; CATALYST; ACTIVE; COMPRISE; POLYNUCLEOTIDE; SEQUENCE; SHUFFLE; PHENOTYPE; SELECT; PARAMETER; ENZYME; ACTIVE

Derwent Class: C06; D16; P13

International Patent Class (Main): C12N-015/10

International Patent Class (Additional): A01H-005/00; C12N-005/10; C12N-015/54; C12Q-001/48; C12Q-001/68

File Segment: CPI; EngPI

8/5/30 (Item 24 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013203195 \*\*Image available\*\*

WPI Acc No: 2000-375068/200032

Related WPI Acc No: 2002-402256

XRFX Acc No: N00-281646

Electronically processing method of invoice information, involves performing automated reasonability test on invoice from vendor using reasonability criterion, in database, based on which instructions for payment is generated

Patent Assignee: MELLON BANK NA (MELL-N)

Inventor: ANDERSON M W; MATTHEWS J W; MERRITT D L

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6058380	A	20000502	US 95569746	A	19951208	200032 B

Priority Applications (No Type Date): US 95569746 A 19951208

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 6058380	A		19	G06F-017/60	

Abstract (Basic): US 6058380 A

NOVELTY - Communication unit (202) communicates EDI invoice from vendor (10) to **database** (201). Input unit (203) inputs reasonability criterion from customer to **database**. Automated reasonability test is performed on invoice using reasonability criterion, in **database** based on which instruction regarding payment is generated. Payment is transmitted from **database** to vendor when instruction to pay vendor is generated.

DETAILED DESCRIPTION - The reasonability criterion contains invoice analysis parameters derived from customer for evaluating reasonability of invoice information from vendor. The criterion is selected from group consisting of late charges, **rate changes** unusually high or low invoice **amounts** and unusually high or low usage amounts. An INDEPENDENT CLAIM is also included for method of processing invoice information.

USE - For electronically processing invoice information of vendors e.g. utility companies, lessors of commercial property, uniform providers and telephone industry.

ADVANTAGE - Offers shorter and more manageable time line between invoicing and payment by replacing three mail cycles with faster electronic cycles. Reduces invoice costs through elimination of late and finance charges, resulting from increase in invoice payment accuracy and timeliness. Reduces customers AP staff resource costs through automation. Offers automated review of invoices which permits customer to solely focus on problem invoices. Enables automated auditing of invoices e.g. for computation accuracy and rate classification.

DESCRIPTION OF DRAWING(S) - The figure shows detailed generalized

data flow diagram.

Vendor (10)

Database (201)

Communication unit (202)

Input unit (203)

pp; 19 DwgNo 6/6

Title Terms: ELECTRONIC; PROCESS; METHOD; INVOICING; INFORMATION;  
PERFORMANCE; AUTOMATIC; TEST; INVOICING; VENDING; CRITERIA; DATABASE ;  
BASED; INSTRUCTION; PAY; GENERATE

Derwent Class: T01

International Patent Class (Main): G06F-017/60

File Segment: EPI

8/5/31 (Item 25 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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012888126 \*\*Image available\*\*

WPI Acc No: 2000-059960/200005

XRPX Acc No: N00-047185

Data encoder used in image data compression encoding - has encoding unit  
that assigns amount of symbols of computed activity vector to amount of  
symbols of image data with reduced number of pixels to determine amount  
of symbol generation

Patent Assignee: SONY CORP (SONY )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 11317950	A	19991116	JP 98121531	A	19980430	200005 B

Priority Applications (No Type Date): JP 98121531 A 19980430

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 11317950	A		12	H04N-007/32	

Abstract (Basic): JP 11317950 A

NOVELTY - The data encoder (1) has an encoding unit (5) that  
processes the image data with reduced number of pixels and computed  
activity vector to become the amount of symbol generation obtained by  
assigning the amount of symbols of the activity vector to the amount of  
symbols of the image data. The activity vector shows the activity of  
the image data based on the reduced number of pixels. DETAILED  
DESCRIPTION - The inter-frame difference of two adjacent frames in the  
input image data is computed to determine the inter-frame activity  
vector. The image data are encoded based on the inter-frame difference  
and activity vector. A pixel number converter (2) reduces the number of  
pixels of the image data by a predetermined conversion ratio when  
the amount of the activities of the image data is detected based on  
the absolute-value sum of the activity vector of each block formed in a  
predetermined range in a frame, and when the detection result exceeds a  
predetermined threshold value. INDEPENDENT CLAIMS are also included for  
the following:the data encoding process;and the data transmission  
procedure.

USE - Used in image data compression encoding.

ADVANTAGE - Generates high-resolution encoding data irrespective of  
amount of image data activities. DESCRIPTION OF DRAWING(S) - The figure  
shows the component block diagram of the data encoder. (1) Data  
encoder; (2) Pixel number converter; (5) Encoding unit.

Dwg.1/11

Title Terms: DATA; ENCODE; IMAGE; DATA; COMPRESS; ENCODE; ENCODE; UNIT;

ASSIGN; AMOUNT; SYMBOL; COMPUTATION; ACTIVE; VECTOR; AMOUNT; SYMBOL;

IMAGE; DATA; REDUCE; NUMBER; PIXEL; DETERMINE; AMOUNT; SYMBOL; GENERATE

Derwent Class: U21; W02

International Patent Class (Main): H04N-007/32

International Patent Class (Additional): H03M-007/36; H04N-007/30

File Segment: EPI

8/5/32 (Item 26 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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012871221 \*\*Image available\*\*  
WPI Acc No: 2000-043054/200004  
XRPX Acc No: N00-032636

Control system of gas hot water generation equipment with other application functions like reheating - increases supply current to proportion valve by correcting stored data for hot water supply based on heat calculated for other applications simultaneously performed with hot water supply

Patent Assignee: GASTER KK (GAST-N)  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 11304248	A	19991105	JP 98125275	A	19980420	200004 B

Priority Applications (No Type Date): JP 98125275 A 19980420

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 11304248	A		8 F24H-001/10	

Abstract (Basic): JP 11304248 A

NOVELTY - A controller (50) calculates a correction from a function containing temperature of water flowing to other applications and adds to data stored in a memory (55) on supply current to a proportion valve (5) for hot water supply increases the supply current by the correction amount when supplying water to other applications simultaneously with hot water supply. DETAILED DESCRIPTION - A hot water supply piping (10) and piping (20) for other applications pass through a common heat exchange portion (2) heated by the combustion heat of a gas burner (1) which burns a gas supplied through the proportion valve. A controller (50) controls the supply current to the proportional valve. The memory stores data showing the relationship of the hot water supply demand heat capacity and the supply current for an independent operation of hot water supply. The hot water supply demand heat capacity is calculated by the controller based on the information about the flow of water in the hot water supply piping, the temperature of water at the heat exchange portion and the fixed temperature at which hot water supply is required. The controller calculates a feed forward output from the hot water supply demand heat capacity and the stored data while calculating a feedback data based on the tapping temperature of hot water from the hot water supply piping and the fixed temperature. The supply current to the proportion valve is determined from the feed forward and feedback outputs so as to obtain a fixed hot water tapping temperature.

USE - For controlling the operation of a gas hot water generation equipment with other application functions like reheating.

ADVANTAGE - The overshoot and undershoot of the hot water tapping temperature can be minimized while supplying water to the other applications simultaneously with hot water supply since the supply current to the proportion valve is increased proportional to the calculated amount of heat for the other applications. The feed forward output can be calculated accurately and the function for the amount of correction amount can be adjusted accordingly. DESCRIPTION OF DRAWING(S) - The drawing is the schematic diagram of a gas hot water generating equipment with a reheating function as other applications. (1) Gas burner; (2) Heat exchange portion; (5) Proportion valve; (10) Hot water supply piping; (20) Piping for other applications; (50) Controller; (55) Memory.

Dwg.1/3

Title Terms: CONTROL; SYSTEM; GAS; HOT; WATER; GENERATE; EQUIPMENT; APPLY;

FUNCTION; REHEAT; INCREASE; SUPPLY; CURRENT; PROPORTION; VALVE; CORRECT;  
STORAGE; DATA; HOT; WATER; SUPPLY; BASED; HEAT; CALCULATE; APPLY;  
SIMULTANEOUS; PERFORMANCE; HOT; WATER; SUPPLY  
Derwent Class: Q74; X27  
International Patent Class (Main): F24H-001/10  
International Patent Class (Additional): F24H-001/00  
File Segment: EPI; EngPI

8/5/33 (Item 27 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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012832394 \*\*Image available\*\*  
WPI Acc No: 2000-004226/200001  
XRPX Acc No: N00-003672

Currency conversion printer for exchange of currency other than basic  
currency - refers basic currency conversion table for converting input  
currency data to designated output currency data which does not  
correspond to basic currency

Patent Assignee: BROTHER KOGYO KK (BRER )  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 11282811	A	19991015	JP 9886585	A	19980331	200001 B

Priority Applications (No Type Date): JP 9886585 A 19980331

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 11282811	A	14	G06F-015/02	

Abstract (Basic): JP 11282811 A

NOVELTY - A currency designator indicates currencies for input and  
output other than the basic currency . Corresponding conversion  
rate is read out from basic currency conversion table stored in RAM. A  
converter converts the input currency data into the designated output  
currency data , based on the conversion rate .

USE - For exchange of currency other than basic currency.

ADVANTAGE - Output currency can be printed even if indicated input  
currency is not a basic currency, by referring to the conversion table.

DESCRIPTION OF DRAWING(S) - The figure shows the top view of the  
currency conversion printer.

Dwg.1/9

Title Terms: CURRENCY; CONVERT; PRINT; EXCHANGE; CURRENCY; BASIC; CURRENCY;  
REFER; BASIC; CURRENCY; CONVERT; TABLE; CONVERT; INPUT; CURRENCY; DATA;  
DESIGNATED; OUTPUT; CURRENCY; DATA; CORRESPOND; BASIC; CURRENCY

Derwent Class: P75; T01

International Patent Class (Main): G06F-015/02

International Patent Class (Additional): B41J-003/36

File Segment: EPI; EngPI

8/5/34 (Item 28 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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012540429 \*\*Image available\*\*  
WPI Acc No: 1999-346535/199929  
XRPX Acc No: N99-259054

Refunding management method for value added tax card credit system

Patent Assignee: VA-T-EN LLC (VATE-N)

Inventor: HAGEMIER R C

Number of Countries: 019 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5903876	A	19990511	US 97976106	A	19971121	199929 B

WO 9927481 A1 19990603 WO 98US23800 A 19981111 199929

Priority Applications (No Type Date): US 97976106 A 19971121

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 5903876 A 7 G06F-019/00

WO 9927481 A1 E G06F-019/00

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU  
MC NL PT SE

Abstract (Basic): US 5903876 A

NOVELTY - A computerized personal account of a purchaser is established and corresponding to which a value added tax card (VAT) (15) is issued to the purchaser. While purchasing an item the data in the VAT card is acquired which is then compared with stored data. Based on the comparison, the refund amount to be paid to customer is calculated.

DETAILED DESCRIPTION - When more items are purchased during a single visit, prices of all items are calculated. It is determined whether the total price is below or exceed the predetermined VAT tax level. When the total price exceeds the predetermined VAT tax level, the VAT is calculated on the excess amount, this VAT is charged to the personal account. If the total prices are below the predetermined VAT tax level then refund for all VAT tax collected is issued as credit to personal account or refund check is issued.

USE - For VAT card credit system used for tourists.

ADVANTAGE - Ensures refunding of balanced amount without need for visiting custom office since VAT refund is transferred to credit card account at time of purchase.

DESCRIPTION OF DRAWING(S) - The figure shows block diagram of credit card system and flow diagram explaining refunding process respectively.

VAT (15)

pp; 7 DwgNo 1,2/2

Title Terms: MANAGEMENT; METHOD; VALUE; ADD; TAX; CARD; CREDIT; SYSTEM

Derwent Class: T01; T05

International Patent Class (Main): G06F-019/00

File Segment: EPI

8/5/35 (Item 29 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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011229035 \*\*Image available\*\*

WPI Acc No: 1997-206938/199719

XPX Acc No: N97-170802

Image display device for e.g. picture archiving communication system - has cathode ray tube displays that display image processed by enlargement-reduction unit based on output of rate calculator

Patent Assignee: FUJITSU LTD (FUIT )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 9056706	A	19970304	JP 95210861	A	19950818	199719 B

Priority Applications (No Type Date): JP 95210861 A 19950818

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

JP 9056706 A 7 A61B-006/00

Abstract (Basic): JP 9056706 A

The device has a keyboard (5) that reads a diagnostic image and a reference image to which an amount of a reference image description is added. A rate calculator (3b) calculates a minimum amount of enlargement-reduction of the diagnostic image and reference image based

on a description image amount extractor (3a) which extracts an amount of a diagnostic image description.

An enlargement-reduction unit (3d) enlarges and reduces the image based on the output of the rate calculator. Cathode ray tube displays (1,2) display the image processed by the enlargement-reduction unit from the keyboard.

ADVANTAGE - Automatically scans diagnostic and reference images by manual work due to CRT displays. Enlarges and reduces image due to enlargement-reduction unit. Exactly diagnoses image by comparing diagnostic image and reference image regardless of incongruity in size.

Dwg.1/11

Title Terms: IMAGE; DISPLAY; DEVICE; PICTURE; COMMUNICATE; SYSTEM; CATHODE; RAY; TUBE; DISPLAY; DISPLAY; IMAGE; PROCESS; UNIT; BASED; OUTPUT; RATE; CALCULATE

Index Terms/Additional Words: PACS

Derwent Class: P31; S05

International Patent Class (Main): A61B-006/00

File Segment: EPI; EngPI

8/5/36 (Item 30 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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011035602 \*\*Image available\*\*

WPI Acc No: 1997-013526/199702

XRFX Acc No: N97-011791

Appts. producing mail pieces for multiple users of microcomputers in offices - includes document printer and mail finishing mechanism receiving printed documents and combining them with envelopes which are then franked, mail piece is produced in accordance with supplied data signal

Patent Assignee: PITNEY BOWES INC (PITB )

Inventor: HARMAN J L; MANDULEY F M

Number of Countries: 005 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 745435	A2	19961204	EP 96108561	A	19960529	199702 B
CA 2177447	A	19961201	CA 2177447	A	19960527	199714
US 5650934	A	19970722	US 95453317	A	19950531	199735
US 5684706	A	19971104	US 95453301	A	19950531	199750

Priority Applications (No Type Date): US 95453317 A 19950531; US 95453301 A 19950531

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 745435	A2	E	21	B07C-001/00	
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Designated States (Regional): DE FR GB

US 5650934	A	16	G06F-017/00
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US 5684706	A	18	G07B-017/00
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CA 2177447	A		B41K-003/00
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Abstract (Basic): EP 745435 A

The mail piece production appts. includes a document printer (56) and a mail finishing mechanism (64) receiving printed documents and combining them with envelopes which are then franked (66).

A control mechanism (100) responds to a signal representative of mail piece data to control the appts. to produce the mail piece in accordance with the data. The data includes document data defining it and franking data to frank the main piece with a postage amount.

USE - Relates to system for producing mail pieces and is suitable for multiple users of microcomputers and standard word processors software in office environments.

ADVANTAGE - Provides system for producing and optionally franking moderately sized mail runs of high quality and suitable for use in office environments with standard microcomputers and word processing

programs.

Dwg.4/9

Title Terms: APPARATUS; PRODUCE; MAIL; PIECE; MULTIPLE; USER; MICROCOMPUTER  
; OFFICE; DOCUMENT; PRINT; MAIL; FINISH; MECHANISM; RECEIVE; PRINT;  
DOCUMENT; COMBINATION; ENVELOPE; FRANKING; MAIL; PIECE; PRODUCE; ACCORD;  
SUPPLY; DATA; SIGNAL  
Derwent Class: P43; T01; T05  
International Patent Class (Main): B07C-001/00; B41K-003/00; G06F-017/00;  
G07B-017/00  
International Patent Class (Additional): G06F-019/00  
File Segment: EPI; EngPI

8/5/37 (Item 31 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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010883574 \*\*Image available\*\*

WPI Acc No: 1996-380525/199638

XRPX Acc No: N96-320750

Automatic performance appts - calculates composition ratio of amount  
of data to kind of data for every performance data based on output  
of instrumentation part and then displays composition ratio

Patent Assignee: ROLAND KK (ROLA-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 8185162	A	19960716	JP 94338133	A	19941227	199638 B

Priority Applications (No Type Date): JP 94338133 A 19941227

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 8185162	A	15	G10H-001/00	

Abstract (Basic): JP 8185162 A

The appts consists of a memory which stores multiple performance  
data. An instrumentation part is provided to instrument the amount and  
kind of data for each performance data stored in the memory.

An arithmetic calculation part calculates the composition ratio  
of the amount of data to the kind of data for each performance data  
based on output of the instrumentation part. Then, a display part  
displays the calculated composition ratio.

ADVANTAGE - Displays amount of performance data for every phrase.  
Enables checking consumption of memory area for every phrase. Enables  
looking for desired phrase easily, within short time period.

Dwg.11/11

Title Terms: AUTOMATIC; PERFORMANCE; APPARATUS; CALCULATE; COMPOSITION;  
RATIO; AMOUNT; DATA; KIND; DATA; PERFORMANCE; DATA; BASED; OUTPUT;  
INSTRUMENT; PART; DISPLAY; COMPOSITION; RATIO

Derwent Class: P86; W04

International Patent Class (Main): G10H-001/00

File Segment: EPI; EngPI

8/5/38 (Item 32 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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010570063 \*\*Image available\*\*

WPI Acc No: 1996-067016/199607

XRPX Acc No: N96-056480

Telephone-call tariff management device - has telephone-call tariff adder  
that obtains addition value of tariff for every telephone terminal passed  
from bi-call tariff calculator and monthly-amount tariff calculator

Patent Assignee: MITSUBISHI DENKI BUIL TECHNO SERVICE KK (MITQ );  
MITSUBISHI ELECTRIC CORP (MITQ )

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 7327095	A	19951212	JP 94121438	A	19940602	199607 B
JP 3062007	B2	20000710	JP 94121438	A	19940602	200037

Priority Applications (No Type Date): JP 94121438 A 19940602

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 7327095	A		12	H04M-015/00	
JP 3062007	B2		13	H04M-015/34	Previous Publ. patent JP 7327095

Abstract (Basic): JP 7327095 A

The device has a receiver that outputs an account data based on the reception of a telephone-call detailed data output from a private branch exchange. An account table stores a billing data in circuit classification corresponding to the telephone-call partner point number. A tariff calculation system selector obtains the billing data while a bi-call telephone-call tariff calculator calculates the tariff based on the account data and the account billing data.

A monthly-amount tariff calculator distributes a ratio of addition value to every telephone terminal wherein a monthly-amount tariff system circuit group is calculated based on the added value to telephone terminal that occupies a month-long telephone-call time.

ADVANTAGE - Calculates monthly telephone-call tariff without needing great quantity of help. Calculates telephone-call tariff response to used actual result for every telephone unit of monthly amount tariff system circuit group. Minimises change of telephone-call time. Reduces variation of proportionally distributed telephone-call telephone-call tariff. Enables sum total and difference of telephone call tariff to be made to zero.

Dwg.1/10

Title Terms: TELEPHONE; CALL; TARIFF; MANAGEMENT; DEVICE; TELEPHONE; CALL; TARIFF; ADDER; OBTAIN; ADD; VALUE; TARIFF; TELEPHONE; TERMINAL; PASS; BI; CALL; TARIFF; CALCULATE; MONTH; AMOUNT; TARIFF; CALCULATE

Derwent Class: W01

International Patent Class (Main): H04M-015/00; H04M-015/34

File Segment: EPI